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STATISTICAL SUPPLEMENT

DEPARTMENT OF HEALTH

STATE OF HAWAII

This is the statistical supplement to the descriptive report published in a separate volume.

Anyone who would like additional information may write directly to the office concerned.

1982*

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*Unless otherwise stated, data included in this report are for the calendar year 1982. Publication date, October 1983.

Cover photo: By Mr. Gerald H. Ohta, Affirmative Action Officer
Looking south toward Aloha Tower, Honolulu, Harbor, and Sand Island

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RESEARCH AND STATISTICS OFFICE

VITAL STATISTICS SUMMARY, 1982

Population

The provisional estimate of the total resident population of the State of Hawaii as of July 1, 1982 was 993,735, an increase of 1.5 percent over the revised July 1, 1981 total of 979,043. The resident population of the State increased by 29.1 percent between 1970 and 1982. The largest increase in county population between 1970 and 1982 was recorded by Maui County (72.8 percent), followed by Hawaii County (54.4 percent), Kauai County (37.1 percent), and the City and County of Honolulu (21.0 percent). The population for the nation as a whole increased by 13.6 percent to 231,534,000 during the same period.

BIRTHS

The number of live births recorded continued upwards during 1982, reaching a new high of 18,734, 2.8 percent above the 1981 total of 18,230.

Births among the resident population of the State totaled 18,675 for 1982, 2.8 percent above the 18,174 figure reported for 1981.

The 1982 crude birth rate was 18.8 per 1,000 resident population as compared to a revised 1981 rate of 18.6 per 1,000.

The 1982 crude birth rates were 20.3 per 1,000 resident population for Kauai County, 20.0 for Hawaii County, and 18.6 for Maui County as well as for Honolulu County. The revised 1981 crude birth rates were 19.0, 20.7, 19.7, and 18.2 for the respective counties.

The crude birth rate for the United States was estimated at 16.0 per 1,000 population for 1982, and 15.9 for 1981.

Multiple Births

There were 334 multiple births recorded in 1982 and this constituted 1.8 percent of the 18,734 live births recorded for the year. For 1981, the comparable figure was also 1.8 percent.

There was one set of triplets and 169 sets of twins, in seven of which only one of the twins was born alive.

Low Birthweight Babies

Low birthweight babies, those weighing 2,500 grams (5 pounds, 8 ounces) or less, totaled 1,205 or 6.6 percent of the 18,343 resident single live births recorded in 1982. The percent of low birthweight babies was 6.1 percent for the year 1981.

The median weight of single live births was 7 pounds, 4 ounces (3,278 grams) for both 1982 and 1981.

Attendant at Birth

A total of 233 live births, or 1.2 percent of the 18,675 resident live births, occurred outside a hospital in 1982. The comparable total for 1981 was 280, or 1.5 percent of the 18,174 resident births.

Out of the 233 non-hospital births, 35 were births attended by a licensed physician and 17 were births attended by a certified nurse-midwife or an unlicensed midwife.

Of the 18,442 live births occurring in hospitals, 17,632 were delivered by a licensed medical doctor, 668 by a licensed osteopath, and 130 by a licensed nurse-midwife.

Month of Prenatal Visit

Out of the 18,675 resident mothers who gave birth to children in 1982, 13,851, or 74.2 percent, went for a pregnancy/prenatal visit to a physician within the first three months of their pregnancy. Another 20.0 percent of the mothers went for their first prenatal care during the fourth through sixth month of pregnancy while another 4.5 percent of the mothers saw a physician during the last three months of their pregnancy.

Only 92, or .5 of one percent, of the mothers reported that they had no prenatal care at all.

Illegitimate Live Births

The 3,472 illegitimate live births occurring among residents of the State of Hawaii for the year 1982 resulted in an illegitimate birth rate of 185.9 per 1,000 live births. This is equivalent to 18.6 percent of the 18,675 resident live births being classified as out-of-wedlock births.

The comparable figures for 1981 were 3,303 resident illegitimate live births and an illegitimate birth rate of 181.7 per 1,000 live births. The illegitimate birth rate for 1982 was 100.3 percent above or twice the 1972 rate of 92.8 per 1,000 live births.

The 1982 illegitimate birth rate was 256.7 per 1,000 live births for Hawaii County, 211.9 for Maui County, 200.0 for Kauai County, and 172.8 for Honolulu County. The 1981 rates were 244.2, 207.5, 227.6 and 167.6 for the respective counties.

Standard Fetal Deaths

Standard fetal deaths occurring in the resident population of the State in 1982 totaled 1,618 as compared to 1,661 for the year 1981. The fetal death ratio was 86.6 per 1,000 live births for 1982 and 91.4 for 1981.

The 1982 fetal death ratio was 89.7 per 1,000 live births for Honolulu County, 86.7 for Kauai County, 86.4 for Maui County, and 64.7 for Hawaii County. For 1981, the respective ratios were 95.1, 65.8, 90.0, and 76.3.

Elective Induced Abortions

A total of 6,224 elective induced abortions was recorded for the State for the year 1982 as compared to 6,692 for the year 1981. Of the 1982 total, only 47, or less than one percent, were classified as non-resident abortions.

The State resident elective induced abortion ratio for 1982 was 330.7 per 1,000 live births for the State, 9.2 percent below the 1981 ratio of 364.1.

The highest county abortion ratio was that of Honolulu County where the ratio for 1982 was 350.4 per 1,000 live births. The 1982 abortion ratio was 330.7 for Hawaii County, 327.3 for Maui County, and 292.8 for Kauai County.

The median age of women having an elective induced abortion was 24.0 years of age.

Infant Deaths

Out of the 166 infant deaths recorded for 1982, 158 were classified as resident infant deaths. For 1981, 191 infant deaths were recorded of which 178 were classified as resident infant deaths.

The State resident infant death rate was 8.5 per 1,000 live births for 1982, a 13.3 percent decline from the 9.8 rate reported for 1981.

The provisional infant death rate for the United States was 11.2 per 1,000 live births for 1982, and 11.6 for the year 1981.

For the year 1982, the lowest infant death rate was observed in Hawaii County where the rate was 7.1 per 1,000 live births. The infant death rate was 7.4 for Maui County, 8.6 for Honolulu County and 10.8 for Kauai County.

For the year 1981, the infant death rate was 9.3 per 1,000 live births for Honolulu County, 10.1 for Hawaii County, 13.4 for Maui County, and 10.5 for Kauai County.

Among the larger ethnic groups, infant death rates below the State average of 8.5 per 1,000 live births were found in the Caucasians (5.7), the Japanese (7.6), and the Chinese (6.7). These rates were based on race of mother.

The 1982 neonatal death rate (infant deaths under 28 days of age) for the State was 5.6 per 1,000 live births as compared to 7.3 for the year 1981.

Perinatal Mortality Rate

The 1982 perinatal mortality rate--the sum of infant deaths under one week of age and standard fetal deaths of 20 weeks or more gestation (spontaneous abortions and abortions of unknown cause) divided by perinatal events (sum of all resident live births and standard fetal deaths of 20 weeks of gestation and over)--was 14.8 per 1,000 perinatal events for the State. The 1982 rate was 11.4 percent below the rate of 16.7 for the year 1981.

Hawaii County experienced a perinatal mortality rate of 13.6 per 1,000 perinatal events followed by a rate of 14.0 for Maui County, 14.4 for Kauai County, and 15.1 for Honolulu County.

Deaths

The 5,495 deaths registered in 1982 for the State represented a 4.3 percent rise over the 5,269 deaths registered for 1981. Resident death totals for the comparable period were 5,123 and 4,927 respectively.

The State resident crude death rate was 5.2 per 1,000 population for 1982 as compared to a revised rate of 5.0 for 1981, an increase of 4.0 percent.

For the nation as a whole, the provisional crude death rate was 8.6 for 1982 as well as for 1981.

The 1982 crude death rate was 4.9 per 1,000 population for Honolulu County, 6.0 for Hawaii County, 6.0 for Maui County, and 6.9 for Kauai County. The revised crude death rate for 1981 was 4.8 for Honolulu County, 5.6 for Maui County, 5.8 for Kauai County, and 6.4 for Hawaii County.

Twelve Leading Causes of Death

The first eight leading causes of death for the year 1982 remained in the same order as in 1981. These cause of death categories were "Diseases of the Heart" (168.9 per 100,000 resident population), "Malignant Neoplasms" (125.9), "Cerebrovascular Diseases" (37.7), "All Accidents" (28.1), "Influenza and Pneumonia" (16.1), "Diabetes Mellitus" (12.9), "Suicide" (10.5), and "Perinatal Conditions" (7.0).

The first six leading causes of death categories remained relatively stable in 1982 when compared to rates for 1981. For "Suicide," the death rate increased by 18.0 percent and for "Perinatal Conditions," the rate fell by 21.3 percent.

The disease category, "Other Circulatory Diseases," rose from 11th position in 1981 to 9th place in 1982. The category "Bronchitis, Emphysema and Asthma" was ranked as the tenth leading cause after it was deleted from the list in 1981. "Cirrhosis of the Liver" dropped from 10th place to 11th place in 1982, while "Atherosclerosis" joined the list for the first time as the 12th leading cause of death. "Congenital Anomalies" fell from 9th place in 1981 to 13th place in 1982.

Maternal Deaths

There was one maternal death recorded for the State for the year 1982 and a corrected figure of one for the year 1981. The respective rates were .5 and .6 per 10,000 live births for those years.

Marriages

The number of marriages performed in the State continued its upward trend in 1982, reaching a new high of 13,483, 10.4 percent above the 1981 total of 12,218.

The 1982 State crude marriage rate was 13.6 per 1,000 population as compared to a 1981 rate of 12.5. These rates were well above the provisional marriage rate for the United States of 10.8 and 10.6 for the years 1982 and 1981 respectively.

The highest marriage rates continued to be observed in Kauai County (31.0 per 1,000 population) and Maui County (19.5 per 1,000 population). These two counties are the most popular areas chosen by non-resident couples in which to get married.

Overall, based on residence of bride, non-resident marriages increased from 3,033 in 1981 to 3,722 in 1982, or 22.7 percent.

The median age of grooms was 28.8 years and that of brides was 26.6 years for 1982 and 1981.

The out-marriage rate--percent of persons of one race marrying a person of another race--was 35.7 percent for 1982, 38.6 percent for 1972, and 37.7 percent for 1962.

Divorces

The downward trend in the divorce rate which reached its peak in 1979 with a rate of 5.5 per 1,000 population leveled off in 1982. A total of 4,233 divorces were recorded for the State in 1982, yielding a rate of 4.3 per 1,000 population, identical to the divorce rate for 1981.

Hawaii County had a 1982 divorce rate of 4.7 per 1,000 population, followed by Maui and Kauai Counties with rates of 4.3 per 1,000, and Honolulu County with a rate of 4.2 per 1,000 population.

The revised 1981 divorce rate was 5.4 per 1,000 population for Maui County, 4.5 for Kauai and Hawaii Counties, and 4.2 for Honolulu County.

TABLE 1

ESTIMATED POPULATION BY RESIDENCE AND MILITARY STATUS
State of Hawaii 1970, 1980 and 1982

	Resident Population				
	Total		Armed Forces[1]	Civilian[2]	
APRIL 1, 1970 (U.S. CENSUS)	Number	Percent	Number	Number	Percent
State Total	769,913	100.0	55,142	714,771	100.0
City & County of Honolulu	630,528	81.9	54,809	575,719	80.5
Hawaii County	63,468	8.2	140	63,328	8.9
Kauai County	29,761	3.9	134	29,627	4.1
Kauai Island	29,524	3.8	134	29,390	4.1
Niihau Island	237	0.0	-	237	0.0
Maui County[3]	46,156	6.0	59	46,097	6.5
Lanai Island	2,204	0.3	-	2,204	0.3
Maui Island	38,691	5.0	59	38,632	5.4
Molokai Island[3]	5,261	0.7	-	5,261	0.8
APRIL 1, 1980 (U.S. CENSUS)					
State Total	965,000	100.0	61,019	903,981	100.0
City & County of Honolulu	762,874	79.1	60,666	702,208	77.7
Hawaii County	92,053	9.5	162	91,891	10.2
Kauai County[4]	39,082	4.0	164	38,918	4.3
Maui County[3]	70,991	7.4	27	70,964	7.8
Lanai Island	2,119	0.2	-	2,119	0.2
Maui Island	62,823	6.5	27	62,796	6.9
Molokai Island[3]	6,049	0.6	-	6,049	0.7

	(Revised) PROVISIONAL POPULATION JULY 1, 1981		PROVISIONAL POPULATION JULY 1, 1982	
	Number	Percent	Number	Percent
State Total	979,043	100.0	993,735	100.0
City & County of Honolulu	767,835	78.4	775,191	78.0
Hawaii County	95,764	9.8	97,982	9.9
Kauai County[4]	39,951	4.1	40,811	4.1
Maui County[3]	75,493	7.7	79,751	8.0
Lanai Island	2,126	0.2	2,136	0.2
Maui Island	67,229	6.9	71,386	7.1
Molokai Island[3]	6,138	0.6	6,229	0.7

1/Includes Navy and Coast Guard crews
2/Includes military dependents (1970-61,858; 1980-64,023; 1981-64,300)
3/Includes Kalawao County (Kalaupapa 1970-172; 1980-144; 1982-144)
4/Estimate for Niihau Island: July 1, 1981-260; July 1, 1982-226

Source: Hawaii State Department of Planning and Economic Development, Statistical Report 147; Preliminary Intercensal Estimates, 1970-1980, July 9, 1981; Statistical Memorandum 83-4, May 4, 1983

FIGURE 1
BIRTHS OCCURRING IN HAWAII 1900-1981

FIGURE 2
DEATHS OCCURRING IN HAWAII 1900-1981

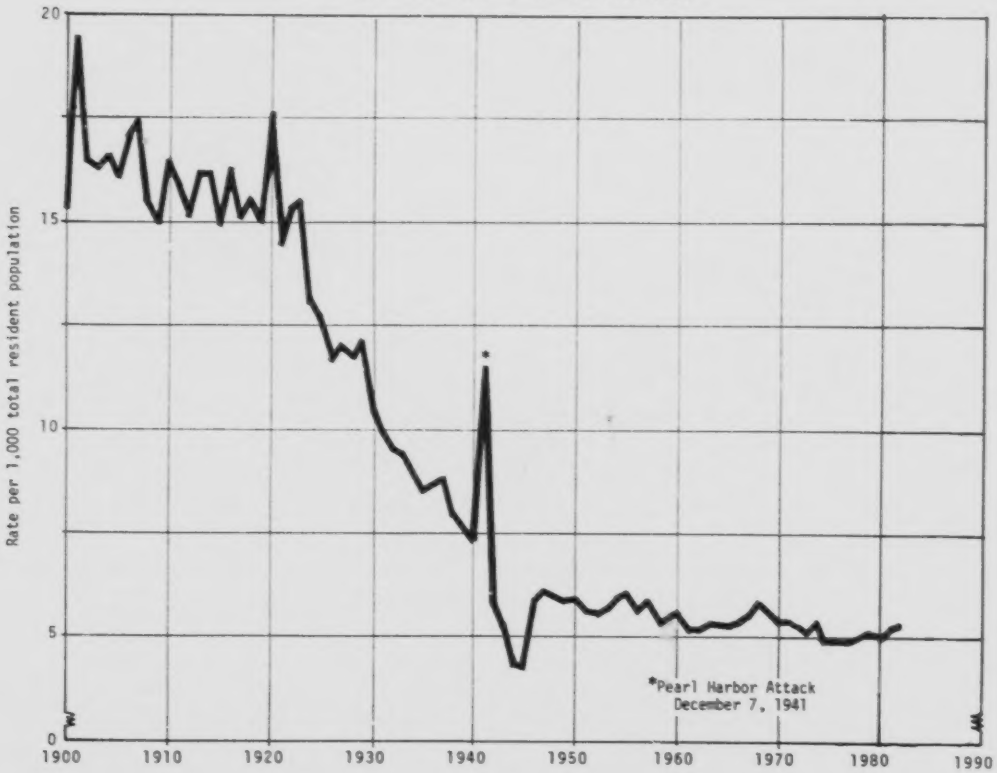


TABLE 2

LIVE BIRTHS BY PLACE OF OCCURRENCE REALLOCATED TO PLACE OF RESIDENCE AND RACE OF CHILD
STATE OF HAWAII, 1982

GEOGRAPHIC AREA	PLACE OF OCCURRENCE	BIRTH BY PLACE OF RESIDENCE		RACE OF CHILD												
		NO.	RATE*	CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERT RICAN	KOREAN	SAMOAN	NEGRO	PORTUGESE	VIETMESE	OTHER	UNKNOWN
TOTAL RECORDED	18734	18734	18.9	4223	60	5680	713	2870	2593	193	309	515	709	213	73	583	
STATE OF HAWAII	18734	18675	18.8	4194	60	5678	708	2864	2589	193	309	512	707	214	73	570	
COUNTY OF HAWAII	1939	1963	20.0	378	14	877	24	232	272	24	11	6	9	57	2	57	
CITY OF HILO	1220	623	16.6	52	7	291	12	59	141	7	5	4	2	22		21	
BALANCE OF COUNTY	719	1340	22.2	326	7	586	12	173	131	17	6	2	7	35	2	36	
COUNTY OF HONOLULU	14638	14400	18.6	3384	31	3887	651	2181	1997	152	289	500	684	180	70	470	
CITY OF HONOLULU	13098	5893	15.9	1127	4	1293	451	963	1053	40	194	225	212	40	56	235	
BALANCE OF COUNTY	1540	8507	21.0	2257	27	2594	200	1218	944	112	95	275	472	60	14	235	
COUNTY OF KALAWAO																	
COUNTY OF KAUAI	809	830	20.3	143	10	302	11	191	116	7	3	1	5	32		9	
ISLAND OF KAUAI	809	826	20.4	143	7	301	11	191	116	7	3	1	5	32		9	
ISLAND OF NIIHAU		4	17.4		3	1											
COUNTY OF MAUI	1378	1482	18.6	289	5	612	22	260	204	10	6	5	5	23	1	40	
ISLAND OF LANAI	5	25	10.5	1		7		15	2								
ISLAND OF MAUI	1293	1317	18.7	279	5	496	22	232	195	9	6	5	4	23	1	40	
ISLAND OF MOLOKAI (EXCL. KALAWAO)	80	140	21.1	9		109		13	7	1			1				
NONRESIDENT		57		28		1	5	6	4			3	2	1		7	
UNKNOWN RESIDENCE		2		1		1											

*NUMBER OF BIRTHS PER 1,000 RESIDENT POPULATION

TABLE 3

LIVE BIRTHS BY PLACE OF OCCURRENCE REALLOCATED TO PLACE OF RESIDENCE AND RACE OF MOTHER
STATE OF HAWAII, 1982

GEOGRAPHIC AREA	PLACE OF OCCURRENCE	BIRTH BY PLACE OF RESIDENCE		RACE OF MOTHER													
		NO.	RATE*	CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERT RICAN	KOREAN	SAMOAN	NEGRO	PORTUGESE	VIETMESE	OTHER	UNKNOWN
TOTAL RECORDED	18734	18734	18.9	5614	148	4064	751	3059	2642	158	390	523	498	236	81	568	2
STATE OF HAWAII	18734	18675	18.8	5582	148	4063	748	3053	2638	158	390	521	497	236	81	558	2
COUNTY OF HAWAII	1939	1963	20.0	552	38	595	32	278	289	24	17	5	3	55	2	73	
CITY OF HILO	1220	623	16.6	97	13	200	17	78	154	4	5	2		22	1	30	
BALANCE OF COUNTY	719	1340	22.2	455	25	395	15	200	135	20	12	3	3	33	1	43	
COUNTY OF HONOLULU	14638	14400	18.6	4361	65	2856	681	2306	2038	113	364	509	489	103	77	436	2
CITY OF HONOLULU	13098	5893	15.9	1522	9	916	455	984	1080	33	228	232	122	35	61	215	1
BALANCE OF COUNTY	1540	8507	21.0	2839	56	1940	226	1322	958	80	136	277	367	68	16	221	1
COUNTY OF KALAWAO																	
COUNTY OF KAUAI	809	830	20.3	240	23	156	13	196	102	9	2	4	2	35		6	
ISLAND OF KAUAI	809	826	20.4	240	20	195	13	196	102	9	2	4	2	35		8	
ISLAND OF NIIHAU		4	17.4		3	1											
COUNTY OF MAUI	1378	1482	18.6	429	22	416	22	273	209	12	7	3	3	43	2	41	
ISLAND OF LANAI	5	25	10.5	2		4		17	2								
ISLAND OF MAUI	1293	1317	18.7	405	18	328	22	236	199	12	6	3	3	43	2	40	
ISLAND OF MOLOKAI (EXCL. KALAWAO)	80	140	21.1	22	4	84		20	8		1					1	
NONRESIDENT		57		31			3	6	4			2	1			10	
UNKNOWN RESIDENCE		2		1		1											

*NUMBER OF BIRTHS PER 1,000 RESIDENT POPULATION

TABLE 4

LIVE BIRTHS BY RACE OF MOTHER AND TYPE OF CONGENITAL MALFORMATION
STATE OF HAWAII, 1982

TYPE OF CONGENITAL MALFORMATION	TOTAL	PERCENT	RACE OF MOTHER													
			CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	SAMOAN	NEGRO	PORTUGUESE	VIETNAMESE	OTHER	UNKNOWN
TOTAL	16,675	100.0	5,582	148	4,063	748	3,053	2,638	158	390	521	497	236	81	558	
PERCENT	100.0		29.9	.8	21.8	4.0	16.3	14.1	.8	2.1	2.8	2.7	1.3	.4	3.0	
NO MALFORMATION	16,528	99.2	5,543	147	4,033	740	3,019	2,617	157	390	514	496	235	80	555	
ONE OR MORE MALFORMATIONS	147	.8	39	1	30	8	34	21	1		7	1	1	1	3	
ANENCEPHALUS (01)	4		1		2			1								
SPINA BIFIDA, MENINGOCELE (02)	1				1											
HYDROCEPHALUS (03)	5		1		2	1					1					
CIRCULATORY SYSTEM (06, 07)	11	.1	3		2		5	1								
CLEFT PALATE & HARELIP (09)	10	.1	5		1	3	3	4			1			1		
DIGESTIVE SYSTEM (10)	6		1		1	1	2	1								
GENITO-URINARY (11)	13	.1	6		2	1	2	1			1					
CLUBFOOT (12)	4		1		2										1	
BONE & JOINT (13, 14)	31	.2	11		8	1	2	4			4	1				
MULTIPLE ANOMALIES (16, 17, 18)	10	.1	1		1		4	3							1	
DOWNS DISEASE (15)	7		1		1		1	3							1	
OTHER AND UNSPECIFIED (RESIDUAL)	52	.3	10	1	10	2	17	8	1		1		1		1	

* IF ANY INFANT HAS MORE THAN ONE CONGENITAL MALFORMATION, THE SUM OF THE PERCENTAGES WILL BE GREATER THAN 100

TABLE 5

LIVE BIRTHS BY PLACE AND MONTH OF OCCURRENCE
STATE OF HAWAII, 1982

GEOGRAPHIC AREA	TOTAL	PERCENT	MONTH OF BIRTH												
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	UNK
TOTAL RECORDED	16734	100.0	1536	1424	1521	1504	1511	1530	1649	1633	1712	1590	1481	1643	
STATE OF HAWAII	16734	100.0	1536	1424	1521	1504	1511	1530	1649	1633	1712	1590	1481	1643	
PERCENT															
COUNTY OF HAWAII	1939	10.4	160	149	161	144	155	147	180	153	193	168	166	163	
CITY OF HILO	1220	6.5	101	89	100	91	95	94	120	98	129	104	105	94	
BALANCE OF COUNTY	719	3.8	59	60	61	53	60	53	60	55	64	64	61	69	
COUNTY OF HONOLULU	14608	78.0	1205	1124	1178	1180	1180	1190	1300	1281	1324	1252	1115	1279	
CITY OF HONOLULU	13098	69.9	1081	1005	1077	1084	1077	1047	1162	1146	1160	1101	1005	1151	
BALANCE OF COUNTY	1510	8.1	124	119	101	96	103	143	138	133	164	151	110	128	
COUNTY OF KALAWAO															
COUNTY OF KAUAI	809	4.3	65	49	58	77	73	60	61	80	80	73	71	62	
ISLAND OF KAUAI	809	4.3	65	49	58	77	73	60	61	80	80	73	71	62	
ISLAND OF NIIHAU															
COUNTY OF MAUI	1378	7.4	106	102	124	103	103	133	108	119	115	97	129	139	
ISLAND OF LANAI	5						2		1		1			1	
ISLAND OF MAUI	1293	6.9	101	96	117	97	95	125	102	114	106	94	121	125	
ISLAND OF MOLOKAI (EXCL. KALAWAO)	80	.4	5	6	7	6	6	8	5	5	8	3	8	13	
NONRESIDENT															
UNKNOWN RESIDENCE															

TABLE 6

LIVE BIRTHS BY RACE OF CHILD AND ATTENDANT AT BIRTH
STATE OF HAWAII, 1982

RACE OF CHILD	TOTAL NUMBER OF BIRTHS	ATTENDANT AT BIRTH									
		IN HOSPITAL					OUTSIDE OF HOSPITAL				UNKNOWN
		TOTAL	MED DOC	OSTEOPATH	MIDWIFE	OTHER	TOTAL	MED DOC	MIDWIFE	OTHER	
TOTAL	18675	18442	17632	668	130	12	233	35	17	156	25
CAUCASIAN	4190	4054	3646	372	35	1	136	11	14	89	22
HAWAIIAN	29	29	29								
PART HAW'N	5635	5594	5510	35	42	7	41	13	1	27	
CHINESE	706	700	693	3	4		6			5	1
FILIPINO	2863	2850	2760	71	16	3	13	3		10	
JAPANESE	2587	2571	2547	8	16		16	1	2	11	2
PUERTO RICAN	191	190	171	17	2		1	1			
KOREAN	309	309	293	12	4						
SAMOAN	513	512	491	17	4		1			1	
NEGRO	706	698	580	115	3		8	2		6	
PORTUGUESE	213	213	211	1	1						
VIETNAMESE	72	72	72								
OTHER	648	639	618	17	3	1	9	2		7	
UNKNOWN	13	11	11				2	2			

TABLE 7

LIVE BIRTHS BY RACE OF FATHER AND OF MOTHER
STATE OF HAWAII, 1982

RACE OF MOTHER		ALL RACES		RACE OF FATHER													
		NUMBER	PERCENT	CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	SAMOAN	NEGRO	PORTUGUESE	VIETNAMESE	OTHER	UNKNOWN
ALL RACES	NUMBER	18,675	100.0	5,240	204	3,095	671	2,664	2,479	228	226	493	699	321	41	554	1,760
	PERCENT	100.0		28.1	1.1	16.6	3.6	14.3	13.3	1.2	1.2	2.6	3.7	1.7	.2	3.0	9.4
CAUCASIAN		5,582	29.9	3,793	42	463	71	259	245	37	13	44	109	43		65	378
HAWAIIAN		148	.8	17	31	41	1	5	8	4	1	3	3	2		3	29
PART HAWN		4,063	21.8	407	98	1,602	78	382	270	57	16	95	61	134		99	764
CHINESE		748	4.0	96	2	80	319	36	162	4	4	2	6	6	1	10	20
FILIPINO		3,053	16.3	364	11	362	40	1,731	135	38	4	8	41	54		40	225
JAPANESE		2,638	14.1	295	7	321	114	157	1,540	10	44	5	11	23		18	93
PUERTO RCN		158	.8	11	4	22	3	10	7	48		3	12	8		2	28
KOREAN		390	2.1	89		28	23	12	72	4	141	1	7	2			11
SAMOAN		521	2.8	27	2	28	6	5	3	6	1	325	12	4	1	11	90
NEGRO		497	2.7	23		6		2		2			419			7	38
PORTUGUESE		230	1.3	13	4	75	7	39	13	10	1	1	2	36		8	27
VIETNAMESE		81	.4	15		3	3	1	5						38		16
OTHER		558	3.0	90	3	63	5	25	19	8	1	6	16	9	1	271	41
UNKNOWN		4				1	1										
FATHER AND MOTHER OF SAME RACE		10,294	55.1	3,793	31	1,602	319	1,731	1,540	48	141	325	419	36	38	271	

TABLE 8

LIVE BIRTHS BY RACE OF MOTHER AND MONTH OF FIRST PRENATAL VISIT
STATE OF HAWAII, 1982

RACE OF MOTHER		TOTAL NO. OF BIRTHS		MONTH OF FIRST PRENATAL VISIT											
		NUMBER	PERCENT	1ST	2ND	3RD	4TH	5TH	6TH	7TH	8TH	9TH	NONE	NOT STATED	FIRST 3 MONTHS
ALL RACES	NUMBER	18,675	100.0	2,565	6,726	4,560	1,940	1,122	675	434	325	92	92	154	13,851
	PERCENT	100.0		13.7	36.0	24.4	10.4	6.0	3.6	2.3	1.7	.4	.5	.8	74.2
CAUCASIAN		5,582	29.9	832	2,146	1,409	530	279	149	89	71	18	27	32	4,387
HAWAIIAN		148	.8	9	25	41	28	12	10	10	7	2	2	4	75
PART HAWN		4,063	21.8	381	1,276	1,036	515	346	197	150	78	23	24	32	2,693
CHINESE		748	4.0	164	306	170	33	21	18	10	9	3		14	640
FILIPINO		3,053	16.3	381	1,035	786	371	209	121	55	52	10	9	24	2,202
JAPANESE		2,638	14.1	488	1,186	598	164	84	52	24	18	5	6	13	2,272
PUERTO RCN		158	.8	22	65	38	16	6	5	3	1		1	1	125
KOREAN		390	2.1	71	146	91	34	16	11	7	7	1		6	308
SAMOAN		521	2.8	40	99	87	71	50	56	48	43	9	7	11	226
NEGRO		497	2.7	68	178	110	67	33	18	13	2	1	5	2	356
PORTUGUESE		236	1.3	23	93	64	28	11	7	4	2	1	1	2	180
VIETNAMESE		81	.4	11	29	23	6	4	1	5	1			1	63
OTHER		556	3.0	75	142	105	77	51	30	16	34	9	5	14	322
UNKNOWN		2				2									2

TABLE 9

LIVE BIRTHS BY RACE OF MOTHER AND NUMBER OF CHILDREN BORN TO MOTHER
STATE OF HAWAII, 1982

RACE OF MOTHER		TOTAL NO. OF BIRTHS		TOTAL NUMBER OF CHILDREN BORN TO MOTHER											
		NUMBER	PERCENT	-1-	-2	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	12 OR MORE	UNK
ALL RACES	NUMBER	18,675	100.0	5,961	5,725	3,494	1,866	868	372	185	97	41	29	14	22	1
	PERCENT	100.0		31.9	30.7	18.7	10.0	4.6	2.0	1.0	.5	.2	.2	.1	.1	
CAUCASIAN		5,582	29.9	1,837	1,772	1,043	505	244	92	41	22	11	4	2	9	
HAWAIIAN		148	.8	32	46	25	20	8	8	3	4	2	1	1		
PART HAWN		4,063	21.8	1,212	1,083	766	486	254	119	63	39	16	11	7	7	
CHINESE		748	4.0	246	274	138	59	18	9	4						
FILIPINO		3,053	16.3	1,021	930	547	306	141	59	23	13	5	5		3	
JAPANESE		2,638	14.1	906	955	464	202	69	23	14	4					1
PUERTO RCN		158	.8	51	37	33	19	8	4	2	2	1		1		
KOREAN		390	2.1	141	123	77	23	14	7	2		1	1		1	
SAMOAN		521	2.8	126	108	107	80	47	23	14	6	4	4		2	
NEGRO		497	2.7	151	163	105	51	17	6	4						
PORTUGUESE		236	1.3	70	65	45	36	8	6	4	1		1			
VIETNAMESE		81	.4	18	24	17	13	6	1				1	1		
OTHER		556	3.0	148	145	127	66	34	17	11	6	1	1	2		
UNKNOWN		2		2												

TABLE 10

LIVE BIRTHS BY RACE OF MOTHER AND NUMBER OF CHILDREN BORN ALIVE TO MOTHER
STATE OF HAWAII, 1982

RACE OF MOTHER		TOTAL NO. OF BIRTHS		TOTAL NUMBER OF CHILDREN BORN ALIVE												
		NUMBER	PERCENT	-1-	-2	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	12 OR MORE	UNK
ALL RACES	NUMBER	18,075	100.0	7,924	6,027	2,826	1,127	444	167	74	41	24	7	7	6	1
	PERCENT	100.0		42.4	32.3	15.1	6.0	2.4	.9	.4	.2	.1				
CAUCASIAN		5,582	29.9	2,625	1,846	736	239	91	18	12	6	4		2	3	
HAWAIIAN		148	.8	37	51	27	14	7	5	4	1	2				
PART HAWN		4,063	21.8	1,539	1,150	707	383	154	70	24	18	9	4	3	2	
CHINESE		748	4.0	327	281	100	31	6	3							
FILIPINO		3,053	16.3	1,250	968	518	182	86	25	10	5	5	2	1	1	
JAPANESE		2,638	14.1	1,242	968	315	88	13	8	3						1
PUERTO RCN		158	.8	62	51	24	13	3	1	2	2					
KOREAN		390	2.1	192	154	33	9	1	1							
SAMOAN		521	2.8	147	112	108	68	48	21	8	5	3	1			
NEGRO		497	2.7	206	173	82	24	11	1							
PORTUGUESE		236	1.3	82	80	43	22	5		3	1					
VIETNAMESE		81	.4	18	30	21	8	3						1		
OTHER		558	3.0	195	163	112	46	16	14	8	3	1				
UNKNOWN		2		2												

TABLE 11

LIVE BIRTHS BY AGE OF MOTHER AND NUMBER OF CHILDREN BORN
STATE OF HAWAII, 1982

AGE OF MOTHER	TOTAL	PERCENT	TOTAL NUMBER OF CHILDREN BORN TO MOTHER												
			-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	> 11	UNK
ALL AGES	18,075	100.0	5,961	5,725	3,494	1,866	868	372	185	97	41	29	14	22	1
PERCENT	100.0		31.9	30.7	18.7	10.0	4.6	2.0	1.0	.5	.2	.2	.1	.1	
UNDER 15	22	.1	21	1											
15-17	526	2.8	410	103	11	2									
18-19	1,484	7.9	971	372	106	30	5								
20-24	5,992	32.1	2,242	2,017	1,082	446	141	38	16	6	1	1		4	
25-29	5,759	30.8	1,490	1,821	1,201	686	313	141	53	31	13	3	4	3	
30-34	3,054	16.4	676	1,132	822	510	266	114	69	34	12	8	3	7	1
35-39	1,089	5.8	131	255	248	166	124	68	42	21	11	11	5	7	
40-44	142	.8	20	22	24	26	19	9	4	4	3	6	2	3	
45-49	7			2				2	1	1	1				
OVER 49															
UNKNOWN															

TABLE 12

LIVE BIRTHS BY AGE OF MOTHER AND NUMBER OF CHILDREN BORN ALIVE
STATE OF HAWAII, 1982

AGE OF MOTHER	TOTAL	PERCENT	TOTAL NUMBER OF CHILDREN BORN ALIVE												
			-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	> 11	UNK
ALL AGES	18,675	100.0	7,924	6,027	2,826	1,127	444	167	74	41	24	7	7	6	1
PERCENT	100.0		42.4	32.3	15.1	6.0	2.4	.9	.4	.2	.1				
UNDER 15	22	.1	21	1											
15-17	526	2.8	469	55	1	1									
18-19	1,484	7.9	1,146	280	50	8									
20-24	5,992	32.1	2,974	2,038	737	190	45	6					1	1	
25-29	5,759	30.8	2,105	1,959	1,043	422	152	53	14	6	3		2		
30-34	3,654	19.6	973	1,340	729	348	150	56	30	14	8	2		3	1
35-39	1,089	5.8	205	325	243	134	82	43	27	17	5	4	3	1	
40-44	142	.8	30	28	23	24	15	7	2	3	7	1	1	1	
45-49	7		1	1				2	1	1	1				
OVER 49															
UNKNOWN															

TABLE 13

SINGLE LIVE BIRTHS BY WEIGHT AT BIRTH AND RACE OF CHILD
STATE OF HAWAII, 1982

WEIGHT AT BIRTH IN GRAMS		ALL RACES		RACE OF CHILD													
		NUMBER	PERCENT	CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	SAMOAN	NEGRO	PORTUGUESE	VIETNAMESE	OTHER	UNKNOWN
TOTAL		18,543	100.0	4,105	60	5,568	699	2,833	2,546	107	305	503	687	230	72	568	
LOW BIRTH WEIGHT [a]	NUMBER	1,209	6.6	225	5	362	27	268	161	13	24	13	53	14	2	37	
	PERCENT [b]			1.2		2.0	.1	1.5	.9	.1	.1	.1	.3	.1		.2	
UNDER 501		9		2		5	1		1								
501 THRU 1000		71	.4	11		18	3	14	9	2	4	1	8	1			
1001 THRU 1500		91	.5	18	2	25	1	15	12	3	4	2	5	1		3	
1501 THRU 2000		190	1.0	39		59	2	40	25	1	3	2	12	3	1	3	
2001 THRU 2500		843	4.6	155	3	255	20	195	114	7	13	3	28	9	1	31	
2501 THRU 3000		3,765	20.5	573	10	1,163	164	787	599	42	67	42	153	41	21	103	
3001 THRU 3500		7,269	39.6	1,480	27	2,235	320	1,188	1,114	72	108	163	259	82	27	194	
3501 THRU 4000		4,660	25.5	1,309	16	1,404	157	489	568	52	92	193	167	52	20	161	
4001 THRU 4500		1,173	6.4	431	1	330	27	89	88	6	10	73	47	13	2	56	
4501 THRU 5000		216	1.2	82		63	1	10	15	2	3	16	8	3		13	
OVER 5000		24	.1	8		8		1	1		1	3				2	
UNKNOWN		10	.1	1	1	3	3	1						1			

MEDIAN WEIGHT, LBS.OZ. 7- 4 GRAMS 3278

[a] INFANTS OF 2500 GRAMS OR LESS ARE CONSIDERED LOW BIRTH WEIGHT
[b] PERCENT OF SINGLE LIVE BIRTHS OF KNOWN WEIGHT

TABLE 14

SINGLE LIVE BIRTHS BY WEIGHT AT BIRTH AND RACE OF MOTHER
STATE OF HAWAII, 1982

WEIGHT AT BIRTH IN GRAMS		ALL RACES		RACE OF MOTHER													
		NUMBER	PERCENT	CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	SAMOAN	NEGRO	PORTUGUESE	VIETNAMESE	OTHER	UNKNOWN
TOTAL		18,343	100.0	5,454	145	3,990	735	3,019	2,605	150	380	509	483	232	81	548	2
LOW BIRTH WEIGHT[a]	NUMBER	1,205	6.6	283	11	275	31	299	156	20	25	11	39	16	2	35	2
	PERCENT[b]			1.5	.1	1.5	.2	1.6	.9	.1	.1	.1	.2	.1		.2	
UNDER 501		9		2		5			2								
501 THRU 1000		72	.4	16		16	3	19	8	1	4	1	4				
1001 THRU 1500		92	.5	20	2	17	3	21	11	1	5	2	4	1		4	1
1501 THRU 2000		190	1.0	45	1	44	6	46	26	4	3	1	9	5	1	1	
2001 THRU 2500		842	4.6	200	8	193	19	213	109	14	13	7	22	12	1	30	1
2501 THRU 3000		3,765	20.5	802	27	828	181	855	634	24	80	45	110	59	21	99	
3001 THRU 3500		7,269	39.6	2,013	61	1,606	339	1,259	1,145	61	131	157	185	90	32	190	
3501 THRU 4000		4,680	25.5	1,712	39	994	155	498	563	41	125	202	114	57	23	157	
4001 THRU 4500		1,172	6.4	528	5	237	28	91	91	8	15	74	29	10	2	54	
4501 THRU 5000		218	1.2	105	1	43	2	14	14	2	4	16	6		1	10	
OVER 5000		24	.1	10		4	1	1	1			4				3	
UNKNOWN		10	.1	1	1	3	2	2	1								

MEDIAN WEIGHT, LB.OZ. 7- 4 GRAMS 3278

[a]/INFANTS OF 2500 GRAMS OR LESS ARE CONSIDERED LOW BIRTH WEIGHT
[b]/PERCENT OF SINGLE LIVE BIRTHS OF KNOWN WEIGHT

TABLE 15

SINGLE MALE LIVE BIRTHS BY WEIGHT AND GESTATION PERIOD
STATE OF HAWAII, 1982

WEIGHT AT BIRTH IN GRAMS		TOTAL	PERCENT	GESTATION PERIOD IN WEEKS						
				UNDER 20	20-27	28-35	36-39	40	OVER 40	UNKNOWN
TOTAL		9,437	100.0	3	48	476	4,262	1,922	2,543	183
LOW BIRTH WEIGHT[a]	NUMBER	559	5.9	1	37	201	236	29	39	16
	PERCENT[b]				.4	2.1	2.5	.3	.4	.2
UNDER 501		3			3					
501 THRU 1000		37	.4		25	9	1	1		1
1001 THRU 1500		52	.6	1	7	39	2		2	1
1501 THRU 2000		96	1.0		2	57	27	1	6	3
2001 THRU 2500		371	3.9			96	206	27	31	11
2501 THRU 3000		1,710	18.1	1	4	106	1,019	243	300	37
3001 THRU 3500		3,627	38.4		5	115	1,786	770	891	60
3501 THRU 4000		2,639	28.0	1	1	46	994	651	896	50
4001 THRU 4500		728	7.7		1	6	189	181	335	16
4501 THRU 5000		155	1.6				33	45	74	3
OVER 5000		14	.1				3	3	7	1
UNKNOWN		5	.1			2	2		1	

MEDIAN WEIGHT, LB.OZ. 7- 6 GRAMS 3329

[a]/INFANTS OF 2500 GRAMS OR LESS ARE CONSIDERED LOW BIRTH WEIGHT
[b]/PERCENT OF SINGLE LIVE BIRTHS OF KNOWN WEIGHT

TABLE 16

SINGLE FEMALE LIVE BIRTHS BY WEIGHT AND GESTATION PERIOD
STATE OF HAWAII, 1982

WEIGHT AT BIRTH IN GRAMS		TOTAL	PERCENT	GESTATION PERIOD IN WEEKS						
				UNDER 20	20-27	28-35	36-39	40	OVER 40	UNKNOWN
TOTAL		8,904	100.0	5	52	413	3,771	1,891	2,605	167
LOW BIRTH WEIGHT[a]	NUMBER	644	7.2	2	40	185	294	46	64	13
	PERCENT[b]				.4	2.1	3.3	.5	.7	.1
UNDER 501		6	.1	1	5					
501 THRU 1000		34	.4		25	8				1
1001 THRU 1500		39	.4		7	24	4	2	1	1
1501 THRU 2000		94	1.1		1	58	23	2	6	4
2001 THRU 2500		471	5.3	1	2	95	267	42	57	7
2501 THRU 3000		2,055	23.1	1	2	96	1,123	358	430	45
3001 THRU 3500		3,642	40.9	1	7	85	1,540	861	1,087	61
3501 THRU 4000		2,041	22.9	1	1	40	682	494	784	39
4001 THRU 4500		444	5.0			6	112	113	205	8
4501 THRU 5000		63	.7			1	16	15	30	1
OVER 5000		10	.1		1		3	2	4	
UNKNOWN		5	.1		1		1	2	1	

MEDIAN WEIGHT, LB.OZ. 7- 2 GRAMS 3225

[a] INFANTS OF 2500 GRAMS OR LESS ARE CONSIDERED LOW BIRTH WEIGHT
[b] PERCENT OF SINGLE LIVE BIRTHS OF KNOWN WEIGHT

TABLE 17

LIVE BIRTHS BY RACE, SEX, PLURALITY OF BIRTH, AND LOW BIRTH WEIGHT
STATE OF HAWAII, 1982

RACE OF CHILD	SINGLE AND PLURAL BIRTHS				SINGLE MALE BIRTHS			SINGLE FEMALE BIRTHS			PLURAL MALE BIRTHS			PLURAL FEMALE BIRTHS		
	TOTAL NO. OF BIRTHS	MALE	FEMALE	RATIO[a]	TOTAL	LOW BIRTHWEIGHT[b] NO.	LOW BIRTHWEIGHT[b] PERCENT[c]	TOTAL	LOW BIRTHWEIGHT[b] NO.	LOW BIRTHWEIGHT[b] PERCENT[c]	TOTAL	LOW BIRTHWEIGHT[b] NO.	LOW BIRTHWEIGHT[b] PERCENT[c]	TOTAL	LOW BIRTHWEIGHT[b] NO.	LOW BIRTHWEIGHT[b] PERCENT[c]
ALL RACES	18,675	9,605	9,070	105.8	9,437	560	5.9	8,906	646	7.3	168	79	47.0	164	93	56.7
CAUCASIAN	4,195	2,152	2,043	105.3	2,105	99	4.7	2,004	126	6.3	47	18	38.3	39	23	59.0
HAWAIIAN	60	33	27	122.2	33	5	15.2	27								
PART HAWN	5,678	2,876	2,802	102.6	2,820	174	6.2	2,746	188	6.8	56	25	44.6	56	32	57.1
CHINESE	708	348	360	96.6	343	10	2.9	356	17	4.8	5	4	80.0	4	2	50.0
FILIPINO	2,864	1,491	1,373	108.5	1,481	130	8.8	1,353	139	10.3	10	7	70.0	20	15	75.0
JAPANESE	2,589	1,323	1,266	104.5	1,296	77	5.9	1,250	84	6.7	27	15	55.6	16	6	37.5
PUERTO RCN	193	111	82	135.3	109	7	6.4	78	6	7.7	2	1	50.0	4	2	50.0
KOREAN	309	152	157	96.8	150	8	5.3	155	16	10.3	2			2		
SAMOAN	512	276	236	116.9	273	5	1.8	231	9	3.9	3			5		
NEGRO	707	375	332	112.9	367	23	6.3	320	30	9.4	8	5	62.5	12	8	66.7
PORTUGUESE	212	117	95	123.1	115	8	7.0	91	6	6.6	2			4	4	100.0
VIETNAMESE	72	31	41	75.6	31			41	2	4.9						
OTHER	570	320	250	125.0	314	14	4.5	254	23	9.1	6	4	66.7	2	1	50.0
UNKNOWN																

[a] NUMBER OF MALES PER 100 FEMALES
[b] INFANTS OF 2500 GRAMS (5 LB 8 OZ) OR LESS ARE CONSIDERED LOW BIRTH WEIGHT
[c] PERCENT OF BIRTHS OF KNOWN WEIGHT ONLY

TABLE 18

LIVE BIRTHS BY RACE AND AGE OF MOTHER
STATE OF HAWAII, 1982

RACE OF MOTHER		ALL AGES		AGE OF MOTHER IN YEARS										
		NUMBER	PERCENT	< 15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45-49	OVER 49	UNKNOWN
ALL RACES	NUMBER	18,675	100.0	22	526	1,484	5,592	5,759	3,654	1,089	142	7		
	PERCENT	100.0		.1	2.8	7.9	32.1	30.8	19.6	5.8	.8			
CAUCASIAN		5,582	29.9	1	79	370	1,985	1,690	1,066	346	45			
HAWAIIAN		146	.8	1	5	14	53	43	22	8	2			
PART HAWN		4,063	21.8	13	235	575	1,549	1,067	465	143	15	1		
CHINESE		748	4.0		12	13	92	280	275	70	5	1		
FILIPINO		3,053	16.3	3	106	254	953	941	574	185	32	5		
JAPANESE		2,638	14.1	3	36	81	422	962	881	228	25			
PUERTO RCN		156	.8		6	13	65	50	12	7	1			
KOREAN		390	2.1		5	13	84	157	96	33	2			
SAMOAN		521	2.8		14	36	214	159	77	17	4			
NEGRO		497	2.7		13	51	270	120	32	11				
PORTUGUESE		236	1.3		9	21	89	73	30	9	5			
VIETNAMESE		81	.4		2	2	19	28	22	6	2			
OTHER		556	3.0	1	4	39	193	189	102	26	4			
UNKNOWN		2				2								

TABLE 19

LIVE BIRTHS BY AGE OF FATHER AND OF MOTHER
STATE OF HAWAII, 1982

AGE OF FATHER		ALL AGES		AGE OF MOTHER IN YEARS										
		NUMBER	PERCENT	< 15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45-49	OVER 49	UNKNOWN
ALL AGES	NUMBER	18,675	100.0	22	526	1,484	5,592	5,759	3,654	1,089	142	7		
	PERCENT	100.0		.1	2.8	7.9	32.1	30.8	19.6	5.8	.8			
< 15		3		1	1	1								
15-17		93	.5	4	54	30	4	1						
18-19		473	2.5	3	115	234	113	6	1		1			
20-24		4,060	21.7		121	658	2,742	461	57	10	1			
25-29		5,014	26.8	1	18	139	1,780	2,598	444	46	8			
30-34		4,124	22.1	1	5	35	469	1,659	1,764	177	14			
35-39		2,057	11.0		1	14	147	499	877	495	24			
40-44		667	3.6			2	47	134	236	198	50			
45-49		198	1.1			1	11	42	57	63	21	3		
50-54		95	.5				7	22	34	23	7	2		
55-59		58	.3				10	15	13	13	6	1		
60-64		21	.1			1	1	3	8	6	1	1		
OVER 64		46	.2				3	12	16	12	3			
UNKNOWN		1,766	9.5	12	211	369	678	307	137	46	6			

MEDIAN AGE OF KNOWN FATHERS = 29
MEDIAN AGE OF ALL MOTHERS = 25

TABLE 20

ILLEGITIMATE LIVE BIRTHS BY PLACE OF OCCURRENCE REALLOCATED TO PLACE OF RESIDENCE AND RACE OF MOTHER
STATE OF HAWAII, 1982

GEOGRAPHIC AREA	PLACE OF OCCURRENCE	BIRTH BY PLACE OF RESIDENCE		RACE OF MOTHER													
		NO.	RATE*	CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	SAMOAN	NEGRO	PORTUGUESE	VIETMESE	OTHER	UNKNOWN
TOTAL RECORDED	3490	3490	186.3	691	56	1560	49	485	219	39	34	125	58	57	18	98	1
STATE OF HAWAII	3490	3472	185.9	682	56	1559	49	485	219	39	34	124	57	57	18	92	1
COUNTY OF HAWAII	491	504	256.7	111	17	219	6	65	32	7	2	1	1	20		23	
CITY OF HILO	322	168	269.7	16	8	80	3	24	12	2	2			12		9	
BALANCE OF COUNTY	169	336	250.7	95	9	139	3	41	20	5		1	1	8		14	
COUNTY OF HONOLULU	2549	2488	172.8	441	26	1134	40	354	154	30	32	121	54	25	17	59	1
CITY OF HONOLULU	2214	941	159.7	184	2	350	29	136	93	8	18	56	19	7	16	22	1
BALANCE OF COUNTY	335	1547	181.9	257	24	784	11	218	61	22	14	65	35	18	1	37	
COUNTY OF KALAWAO																	
COUNTY OF KAUAI	164	166	200.0	43	10	62	1	27	11	2		1	1	4		4	
ISLAND OF KAUAI	164	166	201.0	43	10	62	1	27	11	2		1	1	4		4	
ISLAND OF NIIHAU																	
COUNTY OF MAUI	286	314	211.9	87	3	144	2	39	22			1	1	8	1	6	
ISLAND OF LANAI	1	7	280.0					7									
ISLAND OF MAUI	259	259	196.7	84	3	108	2	28	18			1	1	8	1	5	
ISLAND OF MOLOKAI (EXCL. KALAWAO)	26	48	342.9	3		36		4	4							1	
NONRESIDENT		16	280.7	8								1	1			6	
UNKNOWN RESIDENCE		2	1000.0	1		1											

* NUMBER OF BIRTHS PER 1000 RESIDENT LIVE BIRTHS.

TABLE 21

ILLEGITIMATE LIVE BIRTHS BY WEIGHT AT BIRTH AND RACE OF CHILD
STATE OF HAWAII, 1982

WEIGHT AT BIRTH IN GRAMS	ALL RACES		RACE OF CHILD													
	NUMBER	PERCENT	CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	SAMOAN	NEGRO	PORTUGUESE	VIETNAMESE	OTHER	UNKNOWN
TOTAL	3,472	100.0	480	33	1,894	41	416	182	47	24	117	91	50	18	79	
LOW BIRTH WEIGHT[a/] NUMBER	354	10.2	49	2	188	2	52	22	5	3	3	16	5	1	6	
LOW BIRTH WEIGHT[a/] PERCENT[b/]			1.4	.1	5.4	.1	1.5	.6	.1	.1	.1	.5	.1		.2	
UNDER 501	4	.1			1			1				2				
501 THRU 1000	25	.7	2		11	1	5	1		1		4				
1001 THRU 1500	31	.9	5	1	12		7	2	2	1					1	
1501 THRU 2000	53	1.5	6		34	1	5	2				3	2			
2001 THRU 2500	241	6.9	36	1	130		35	16	3	1	3	7	3	1	5	
2501 THRU 3000	815	23.5	90	6	446	12	125	45	11	6	17	23	8	6	20	
3001 THRU 3500	1,384	39.9	177	16	775	14	173	76	18	8	42	29	22	8	26	
3501 THRU 4000	746	21.5	124	8	399	11	58	30	10	4	44	19	13	3	23	
4001 THRU 4500	134	3.9	32	1	66	1	6	8	2	1	9	3	2		3	
4501 THRU 5000	31	.9	7		16		1		1	2	2	1			1	
OVER 5000	3	.1			2			1								
UNKNOWN	5	.1	1		2	1	1									

MEDIAN WEIGHT, LB.OZ. 8- GRAMS 3160

[a/] INFANTS OF 2500 GRAMS OR LESS ARE CONSIDERED LOW BIRTH WEIGHT
[b/] PERCENT OF SINGLE LIVE BIRTHS OF KNOWN WEIGHT

TABLE 22
ILLEGITIMATE LIVE BIRTHS BY RACE AND AGE OF MOTHER
STATE OF HAWAII, 1982

RACE OF MOTHER		ALL AGES		AGE OF MOTHER IN YEARS										
		NUMBER	RATIO*	< 15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45-49	OVER 49	UNKNOWN
ALL RACES	NUMBER	3,472	185.9	21	402	737	1,334	594	275	91	16	1		
	RATIO*			954.5	764.3	496.6	222.6	103.1	75.5	83.6	112.7	142.9		
CAUCASIAN		682	122.2	1	42	90	260	143	103	37	6			
HAWAIIAN		56	378.4	1	3	8	27	11	4	2				
PART HAWN		1,359	383.7	13	206	389	621	224	83	21	2			
CHINESE		49	65.5		9	6	10	13	8	3				
FILIPINO		485	158.9	2	78	122	176	69	26	8	3	1		
JAPANESE		219	83.0	3	25	49	74	42	17	7	2			
PUERTO RCN		39	246.8		3	8	17	9	1	1				
KOREAN		34	87.2		4	4	9	5	6	6				
SAMOAN		124	238.0		14	25	59	16	8	1	1			
NEGRO		57	114.7		5	9	27	11	5					
PORTUGUESE		57	241.5		8	10	20	14	3		2			
VIETNAMESE		18	222.2		2	2	2	7	3	2				
OTHER		92	104.9	1	3	14	32	30	9	3				
UNKNOWN		1	500.0			1								

* NUMBER OF ILLEGITIMATE BIRTHS PER 1000 LIVE BIRTHS IN SPECIFIED GROUP.

TABLE 23
HAWAII RESIDENT BIRTHS OCCURRING OUTSIDE STATE BY AGE OF MOTHER, RACE, AND SEX OF CHILD*
1982

AGE OF MOTHER	TOTAL		RACE AND SEX OF CHILD													
			CAUCASIAN		JAPANESE		PART-HAWAIIAN		FILIPINO		BLACK		OTHER ASIAN		UNKNOWN	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
TOTAL	17	12	10	4		2	4	1		1	1	2	1		1	2
15-24	9	6	3	1		2	3				1	1	1		1	2
25-34	7	5	6	3			1	1				1				
35-44	1	1	1							1						

*INCLUDES BIRTHS OCCURRING IN THE UNITED STATES, PUERTO RICO, VIRGIN ISLANDS, GUAM, DISTRICT OF COLUMBIA, AND CANADA

TABLE 24

TOTAL DEATHS BY PLACE OF OCCURRENCE REALLOCATED TO USUAL RESIDENCE BY RACE
STATE OF HAWAII, 1982[a/]

GEOGRAPHIC AREA	TOTAL BY PLACE OF OCCURR	TOTAL BY PLACE OF RESIDENCE		ALL RACES	RACE													
	NUMBER	NUMBER	RATE[b/]	MALE	FE-MALE	CAUCA-SIAN	HAWN	PT. HAWN	CHI-NESE	FILI-PINO	JAPA-NESE	PUERTO RICAN	KO-REAN	SA-MOAN	NEGRO	PORTU GUESE	VIETNA-MESE	OTHER RACES	UN-KNOWN
TOTAL RECORDED	5495	5495	5.5	3277	2218	1647	204	628	338	698	1445	62	78	58	51	194	6	85	1
STATE OF HAWAII	5494	5123	5.2	3019	2104	1388	202	625	337	684	1428	62	72	50	39	192	6	38	
CTY OF HAWAII	558	592	6.0	354	238	140	30	69	6	84	193	6	1	1	2	58		2	
CITY OF HILO	372	248	6.6	156	92	41	18	25	4	28	105	1	1		2	22		1	
BALANCE OF CTY	186	344	5.7	198	146	99	12	44	2	56	88	5		1		36		1	
CTY OF HONOLULU	4205	3769	4.9	2204	1565	1077	130	473	327	438	981	45	69	49	36	107	5	32	
CITY-HONOLULU	3381	2179	5.9	1260	919	653	58	220	274	168	642	25	45	13	17	46	4	14	
BALANCE OF CTY	824	1590	3.9	944	646	424	72	253	53	270	339	20	24	36	19	61	1	18	
CTY OF KALAWAO	1	2	12.5	1	1			1			1								
CTY OF KAUAI	272	280	6.9	172	108	42	11	24	3	83	101	4			1	11			
ISL OF KAUAI	272	279	6.9	171	108	42	10	24	3	83	101	4			1	11			
ISL OF NIIHAU		1	4.3	1			1												
CTY OF MAUI	454	480	6.0	288	192	129	31	58	1	79	152	7	2			16	1	4	
ISL OF LANAI	6	15	7.0	12	3	1	2			9	2		1						
ISL OF MAUI	416	423	5.9	249	174	123	23	49	1	56	142	7	1			16	1	4	
ISL OF MOLOKAI (EXCL KALAWAO)	32	42	6.7	27	15	5	6	9		14	8								
NONRESIDENT		370		256	114	258	2	3	1	14	17		6	8	12	2		47	
UNKNOWN	1	2		2		1													1

[a/] EXCLUDES DEATHS OF HAWAII RESIDENTS OCCURRING AND RECORDED IN OTHER REGISTRATION AREAS
[b/] RATE OF DEATH PER 1,000 RESIDENT POPULATION

TABLE 25

RESIDENT DEATHS BY PLACE AND MONTH OF OCCURRENCE
STATE OF HAWAII, 1982

PLACE OF OCCURRENCE		TOTAL	MONTH OF OCCURRENCE											
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
STATE OF HAWAII	NUMBER	5123	447	395	482	439	427	412	425	450	403	397	428	418
	PERCENT	100.0	8.7	7.7	9.4	8.6	8.3	8.0	8.3	8.8	7.9	7.7	8.4	8.2
CTY OF HAWAII		528	41	34	57	49	36	43	35	50	35	36	60	52
CITY OF HILO		360	28	22	38	35	25	30	21	33	22	26	42	38
BALANCE OF CTY		168	13	12	19	14	11	13	14	17	13	10	18	14
CTY OF HONOLULU		3927	347	311	362	325	336	308	349	335	316	307	317	314
CITY-HONOLULU		3136	290	241	289	249	277	245	267	258	261	242	252	265
BALANCE OF CTY		791	57	70	73	76	59	63	82	77	55	65	65	49
CTY OF KALAWAO		1												1
CTY OF KAUAI		253	25	21	23	23	18	21	18	16	20	25	25	18
ISL OF KAUAI		253	25	21	23	23	18	21	18	16	20	25	25	18
ISL OF NIIHAU														
CTY OF MAUI		414	34	29	40	42	37	40	23	49	32	29	26	33
ISL OF LANAI		5			1		1	1			1		1	
ISL OF MAUI		379	29	29	35	36	32	38	21	47	29	27	25	31
ISL OF MOLOKAI		30	5		4	6	4	1	2	2	2	2		2
NON-RESIDENT														
UNKNOWN														

TABLE 26

RESIDENT DEATHS BY PLACE OF OCCURRENCE, AGE, AND SEX
STATE OF HAWAII, 1982

PLACE OF OCCURRENCE	ALL AGES				AGE AND SEX																	
					UNDER 1		1 - 4		5 - 14		15 - 17		18 - 24		25 - 44		45 - 64		65 - 74		75 & OVER		UNK
	TOTAL	MALE	FEMALE	UNK	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
STATE OF HAWAII	5123	3019	2102	2	98	60	12	12	22	17	10	7	102	40	248	128	742	449	718	424	1067	965	2
CTY OF HAWAII	528	318	210		5	4		3	1	3			10	8	32	9	65	32	77	45	128	106	
CITY OF H	360	219	141		5	1		3		2			3	5	19	3	43	20	54	32	95	75	
BALANCE OF CTY	168	99	69			3			1	1			7	3	13	6	22	12	23	13	33	31	
CTY OF HONOLULU	3927	2295	1631	1	86	53	12	8	21	13	10	6	78	28	176	103	587	369	557	330	768	721	1
CITY-HONOLULU	3136	1807	1328	1	72	49	5	5	16	11	6	6	47	23	120	88	461	290	457	263	623	594	
BALANCE OF CTY	791	488	303		14	4	7	3	5	2	4		31	5	56	15	126	79	100	67	145	127	1
CTY OF KALAWAO	1		1																			1	
CTY OF KAUAI	253	158	94	1	4	3		1					5	1	11	7	29	21	35	16	74	46	
ISL OF KAUAI	253	158	94	1	4	3		1					5	1	11	7	29	21	35	16	74	46	
ISL OF NIIHAU																							
CTY OF MAUI	414	248	166		3					1		1	9	3	29	9	61	27	49	33	97	91	1
ISL OF LANAI	5	4	1																		4	1	
ISL OF MAUI	379	224	155		3					1		1	8	3	26	7	59	27	47	32	81	83	1
ISL OF MOLOKAI	30	20	10										1		3	2	2		2	1	12	7	
NON-RESIDENT																							
UNKNOWN																							

TABLE 27

RESIDENT DEATHS BY AGE AND RACE
STATE OF HAWAII, 1982

AGE IN YEARS	ALL RACES				RACE													
	TOTAL	MALE	FEMALE	UNK	CAUCASIAN	HAWN	PT. HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	SAMOAN	NEGRO	PORTUGUESE	VIETNAMESE	OTHER RACES	UNK
ALL AGES	5123	3019	2102	2	1388	202	625	337	684	1428	62	72	50	39	192	6	38	
UNDER 1	158	98	59	1	34		44	6	30	18	2	3	7	10	1		3	
1 - 4	24	12	12		5		9	2	3	4							1	
5 - 14	39	22	17		10		10	1	4	9	1	1	1	2				
15 - 17	17	10	7		2		5	2	5	2			1					
18 - 19	39	27	12		10	1	11	1	8	4		1	1	1			1	
20 - 24	103	75	28		40		28	5	5	12	2	2	2	4	1	1	1	
25 - 34	167	118	49		63	5	30	6	20	29		2		5	2	1	4	
35 - 44	209	130	79		75	4	43	3	24	35	1	8	6	1	6	1	2	
45 - 54	385	224	160	1	93	20	85	14	53	81	3	5	9	3	12	1	6	
55 - 64	806	518	288		225	51	125	38	54	232	10	16	8	5	31	2	9	
65 - 74	1142	718	424		305	61	127	81	150	309	20	8	6	3	63		9	
75 & OVER	2032	1067	965		525	60	108	178	328	693	23	26	8	5	76		2	
UNKNOWN	2		2		1								1					

TABLE 28
TOTAL RECORDED DEATHS, BY AGE, RACE AND SEX
STATE OF HAWAII, 1982

AGE	TOTAL	MAL	FEM	CAUCASIAN		HAW-AIIAN		PART HAWN		CHIN-ESE		FILI-PINO		JAPA-NESE		PEURT RCN		KO-REAN		SA-MOAN		NE-GRO		PORT GESE		VIET MESE		OTHER		UNK	
				M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
< 1	166	104	62	20	16			29	15	5	1	16	16	13	5	1	1	1	2	7	1	8	2	1				3	3		
1	12	6	6	2	2			3	1	1	1				2																
2	10	6	4	2	1			1				1			2													2	1		
3	5	3	2					2	2			1																			
4	4	3	1									1						1										1	1		
5-9	32	17	15	4	1			5	3		1	2	2	3	4				1			1	1					2	2		
10-14	18	12	6	4	2			2				1		1	1	1			1	1	1							2	1		
15-19	61	40	21	11	4	1		10	6	1	2	10	3	4	3				1	1	1	1						1	1		
20-24	114	84	30	43	5			17	11	4	1	2	3	8	4	2		2	1	1	2	3	1		1	1		1	1		
25-29	90	66	24	27	10	3		9	4	2		6	4	10	2			1				5	1					3	3		
30-34	105	70	35	30	13	1	1	12	5	1	3	8	3	11	7				1			3		2			1	2	1		
35-39	108	67	41	26	11		2	14	5		2	6	6	12	3		1	2	3	2	4	1		1	1	1		2	3		
40-44	127	79	48	32	23	1	1	18	6	1		8	6	15	6				3			1	1	2	2			1			
45-49	165	101	64	34	8	7	6	20	21	1	4	12	10	16	6			1	2	3	2			4	3		1	3	1		
50-54	263	158	105	40	32	4	4	25	19	6	3	19	12	38	29	3		4		5	1	4		4	1			6	4		
55-59	321	228	153	79	49	11	10	31	33	7	10	21	12	56	30	1	1	4	3	3	2		1	8	2	1		6			
60-64	505	350	155	113	43	24	6	44	20	16	5	19	6	94	54	6	2	6	4	5	1	3	1	14	8	1		5	5		
65-69	611	376	235	111	75	19	16	44	25	30	18	33	14	105	64	3	3	3	2	1	3	3	3	16	12			8			
70-74	626	402	224	123	73	14	13	27	31	21	13	101	6	83	59	8	6	2	1	1	1		2	17	19			5			
75-79	638	403	235	99	69	19	10	21	26	36	13	92	27	109	71	7	5	3	4	1		1		14	8			1	2		
80-84	596	334	262	100	84	9	7	14	19	26	30	72	20	88	83	2	2	3	5	3	1		1	17	10						
85-89	447	190	257	48	90	6	5	7	9	26	19	49	14	47	101	1	2	1	6		3			5	7				1		
90-94	282	128	154	21	40	1	1	1	4	2	12	35	8	60	81	1			2			2		5	6						
> 94	125	50	75	5	21	1	1		7	4	10	8	3	25	30	2	1	2					1	3	1						
UNK	4	2	2		1																1							1		1	
TOTAL	5495	3279	2216	974	673	121	83	356	272	190	148	523	175	798	647	38	24	36	42	34	24	36	15	113	81	4	2	55	30	1	

NOTE: UNKNOWN SEX FALLS IN MALE CATEGORY

TABLE 29
TOTAL RESIDENT DEATHS RECORDED IN HAWAII BY AGE GROUPS FOR SELECTED YEARS
STATE OF HAWAII: 1962, 1972, AND 1982

AGE IN YEARS	1982		1972[a/]		1962[a/]	
	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
ALL AGES	5,123	100.0	4,304	100.0	3,532	100.0
UNDER 1	158	3.1	260	6.0	375	10.6
1 - 4	24	.5	34	.7	59	1.7
5 - 9	26	.5	12	.3	33	.9
10 - 14	13	.2	16	.4	23	.7
15 - 19	56	1.1	52	1.2	33	.9
20 - 24	103	2.0	70	1.6	57	1.6
25 - 34	167	3.3	150	3.5	111	3.1
35 - 44	209	4.1	170	4.0	206	5.8
45 - 54	385	7.5	478	11.1	395	11.2
55 - 64	806	15.7	722	16.8	567	16.1
65 - 74	1,142	22.3	922	21.4	717	20.3
75 - 84	1,185	23.1	850	19.8	639	18.1
85 & OVER	849	16.6	568	13.2	316	9.0
UNKNOWN	--	--	--	--	1	0.0

MEDIAN AGE AT DEATH 1962: 63.4 YEARS; 1972: 67.0 YEARS; 1982: 69.4 YEARS

[a/] SOURCE: VITAL STATISTICS OF THE UNITED STATES

TABLE 30
RESIDENT DEATHS BY AGE, SEX, AND MARITAL STATUS
STATE OF HAWAII, 1982

AGE IN YEARS	NUMBER BY MARITAL STATUS																	
	MALE						FEMALE						UNKNOWN					
	TOTAL	SIN	MAR	WID	DIV	UNK	TOTAL	SIN	MAR	WID	DIV	UNK	TOTAL	SIN	MAR	WID	DIV	UNK
ALL AGES	3019	613	1694	460	233	19	2102	231	721	990	159	1	2	2				
UNDER 15	132	132					89	88					1	1				
15 - 17	10	10					7	7										
18 - 19	27	26	1				12	12										
20 - 24	75	61	14				28	16	12									
25 - 34	118	59	50		9		49	15	27	1	6							
35 - 44	130	28	74	1	26	1	79	9	54	4	11	1						
45 - 54	224	29	154	7	33	1	161	11	107	17	25		1	1				
55 - 64	516	65	369	30	49	5	288	18	172	60	38							
65 - 74	716	89	481	79	64	5	424	24	214	148	38							
75 - 84	702	80	417	162	38	5	483	16	109	330	28							
85 & OVER	365	34	134	181	14	2	482	14	25	430	13							
UNKNOWN							2	1	1									

TABLE 31
LEADING CAUSES OF DEATH FOR 1982 AND COMPARATIVE DATA FOR SELECTED YEARS
STATE OF HAWAII, 1962, 1972, 1982

	Rank	1982			1972			1962		
		No.[a]	Rate[b]	Percent	No.	Rate[b]	Percent	No.	Rate[b]	Percent
All Causes	..	5,123	515.5	100.0	4,304	519.8	100.0	3,532	516.8	100.0
Diseases of the Heart (390-398, 402, 404, 410-429)	1	1,678	168.9	32.8	1,402	169.3	32.6	1,192	174.4	33.7
Malignant Neoplasms (140-208)	2	1,251	125.9	24.4	888	107.3	20.6	556	81.3	15.7
Cerebrovascular Diseases (430-438)	3	375	37.7	7.3	368	44.4	8.6	317	46.4	9.0
All Accidents (E800-E949)	4	279	28.1	5.4	280	33.8	6.5	250	36.6	7.1
Influenza and Pneumonia (480-487)	5	160	16.1	3.1	152	18.4	3.5	144	21.1	4.1
Diabetes Mellitus (250)	6	128	12.9	2.5	104	12.6	2.4	78	11.4	2.2
Suicide (E950-E959)	7	104	10.5	2.0	84	10.1	2.0	67	9.8	1.9
Perinatal Conditions (760-779)	8	70	7.0	1.4	164	19.8	3.8	240	35.1	6.8
Other Circulatory Diseases (441-459)	9	66	6.6	1.3	62	7.5	1.4	40	5.9	1.1
Bronchitis, Emphysema and Asthma (490-493)	10	64	6.4	1.2	54	6.5	1.3	71	10.4	2.0
Cirrhosis of Liver (571)	11	60	6.0	1.2	72	8.7	1.7	49	7.2	1.4
Atherosclerosis (440)	12	53	5.3	1.0	30	3.6	0.7	43	6.3	1.2
Congenital Anomalies (740-759)	13	51	5.1	1.0	54	6.5	1.3	96	14.0	2.7
All Other Causes		784	74.5	15.4	590	71.3	13.7	389	56.9	11.1

a/ Resident deaths only (including resident military personnel)
b/ Rate of death per 100,000 total resident population

TABLE 32

TOTAL RESIDENT DEATHS BY COUNTY AND BY SELECTED CAUSES OF DEATH
STATE OF HAWAII 1982

	STATE TOTAL[a]		HAWAII COUNTY		HONOLULU COUNTY		KAUAI COUNTY		MAUI COUNTY	
	NUMBER	RATE[b]	NUMBER	RATE[b]	NUMBER	RATE[b]	NUMBER	RATE[b]	NUMBER	RATE[b]
TOTAL DEATHS	5123	515.5	592	604.2	3769	486.2	280	686.1	480	601.9
TUBERCULOSIS, ALL FORMS (010-018,137)	7	0.7			7	0.9				
SYPHILIS AND ITS SEQUELAE (090-097)										
OTHER INFECTIVE & PARASITIC DISEASES (000-139)	66	6.6	12	12.2	49	6.3			4	5.0
MALIGNANT NEOPLASM (140-208)	1251	125.9	130	132.7	948	122.3	50	122.5	123	154.2
DIGESTIVE ORGANS (150-159)	437	44.0	47	48.0	326	42.1	16	39.2	48	60.2
RESPIRATORY SYSTEM (160-163)	283	28.5	19	19.4	228	29.4	10	24.5	26	32.6
BREAST (174-175)	89	9.0	9	9.2	66	8.5	7	17.2	7	8.8
GENITAL ORGANS (179-187)	126	12.7	15	15.3	99	12.8	5	12.3	7	8.8
URINARY ORGANS (188-189)	34	3.4	2	2.0	27	3.5	1	2.5	3	3.8
LEUKEMIA (204-208)	48	4.8	7	7.1	36	4.6	1	2.5	4	5.0
OTHER (140-208)	234	23.5	30	30.6	166	21.4	10	24.5	28	35.1
DIABETES MELLITUS (250)	128	12.9	19	19.4	91	11.7	7	17.2	11	13.8
DISEASE OF CIRCULATORY SYSTEM (390-459)	2190	220.4	248	253.1	1608	207.4	140	343.0	194	243.3
DISEASES OF HEART (390-398,402,404 410-414,415-417,420-429)	1678	168.9	167	170.4	1253	161.6	114	279.3	144	180.6
RHEUMATIC FEVER AND CHRONIC RHEUMATIC HEART DISEASE (390-398)	28	2.8	3	3.1	21	2.7	1	2.5	3	3.8
HYPERTENSIVE HEART (402,404)	68	6.8	4	4.1	44	5.7	15	36.8	5	6.3
ISCHEMIC HEART (410-414)	1142	114.9	126	128.6	857	110.6	64	156.8	95	119.1
OTHER HEART DISEASE (415-417,420-429)	440	44.3	34	34.7	331	42.7	34	83.3	41	51.4
HYPERTENSION (401,403)	18	1.8	1	1.0	11	1.4	2	4.9	4	5.0
CEREBROVASCULAR DISEASE (430-438)	375	37.7	57	58.2	265	34.2	18	44.1	35	43.9
ARTERIOSCLEROSIS (440)	53	5.3	13	13.3	34	4.4	2	4.9	4	5.0
OTHER CIRCULATORY (441-459)	66	6.6	10	10.2	45	5.8	4	9.8	7	8.8
INFLUENZA/PNEUMONIA (480-487)	160	16.1	22	22.5	107	13.8	7	17.2	24	30.1
BRONCHITIS/EMPHYSEMA/ASTHMA (490-493)	64	6.4	8	8.2	48	6.2	3	7.4	5	6.3
PEPTIC ULCER (531-533)	16	1.6	4	4.1	6	0.8			6	7.5
CIRRHOSIS OF LIVER (571)	60	6.0	6	6.1	47	6.1	1	2.5	6	7.5
NEPHRITIS AND NEPHROSIS (580-589)	44	4.4	5	5.1	30	3.9	5	12.3	3	3.8
COMPLICATIONS OF PREGNANCY. CHILDBIRTH & PUERPERIUM (630-676)	1	0.1			1	0.1				
CONGENITAL ANOMALIES (740-759)	51	5.1	6	6.1	39	5.0	2	4.9	4	5.0
PERINATAL CONDITIONS (760-779)	70	7.0	1	1.0	60	7.7	5	12.3	4	5.0
SYMPTOMS & ILL-DEFINED COND (780-799)	58	5.8	8	8.2	47	6.1			3	3.8
ALL OTHER DISEASES (BLANKS,000-799)	505	50.8	59	60.2	370	47.7	34	83.3	42	52.7
ACCIDENTAL DEATHS (800-949)	279	28.1	40	40.8	188	24.3	15	36.8	36	45.1
MOTOR VEHICLE (810-825)	160	16.1	32	32.7	99	12.8	6	14.7	23	28.8
OTHER TRANS. (800-807,826-848)	11	1.1			9	1.2			2	2.5
POISONING (850-869)	5	0.5	1	1.0	4	0.5				
FALLS (880-888)	34	3.4	2	2.0	26	3.4	3	7.4	3	3.8
FIRES (890-899)	5	0.5			4	0.5	1	2.5		
DROWNING & SUBMERSIONS (910)	35	3.5	4	4.1	25	3.2	2	4.9	4	5.0
FIREARM MISSILES (922)	2	0.2			1	0.1			1	1.3
ADVERSE EFFECTS (930-949)	1	0.1			1	0.1				
OTHER ACCIDENTS (800-949)	26	2.6	1	1.0	19	2.5	3	7.4	3	3.8
SUICIDE (950-959)	104	10.5	16	16.3	75	9.7	6	14.7	7	8.8
HOMICIDE & LEGAL INTERVENTION (960-978)	29	2.9	2	2.0	22	2.8	1	2.5	4	5.0
ALL OTHER EXTERNAL CAUSES (800-999,XXXX)	40	4.0	6	6.1	46	3.4	5	9.8	4	5.0

[a] INCLUDES KALAWAO
[b] RATE PER 100,000 TOTAL RESIDENT POPULATION (MAUI COUNTY INCLUDES KALAUPAPA)

TABLE 32A

RESIDENT DEATHS BY AGE GROUP, BY SEX AND BY SELECTED CAUSES OF DEATH
STATE OF HAWAII 1982

CAUSES OF DEATH	ALL AGES		UNDER 1 YR.		1-4 YRS.		5-9 YRS.		10-14 YRS.		15-17 YRS.		18-19 YRS.		20-24 YRS.		25-29 YRS.		30-34 YRS.		35-39 YRS.	
UNKNOWN SEX IN MALE CATEG.	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
TOTAL DEATHS	3021	2102	99	55	12	12	14	12	8	5	10	7	27	12	75	28	52	18	66	31	59	34
TUBERCULOSIS, ALL FORMS (010-018,137)	2	5																				
SYPHILIS AND ITS SEQUELAE (090-097)																						
OTHER INFECTIVE & PARASITIC DISEASES (000-139)	32	34	1	3		1		1					1			1			1	1	1	
MALIGNANT NEOPLASM (140-208)	738	513	1	1			3		2	3	1	2	3		2	4	5	3	6	9	7	14
DIGEST. ORGANS (150-159)	278	159											1				1		1	1	2	3
RESPIRATORY SYSTEM (160-163)	193	90																			2	1
BREAST (174-175)		89																1		2		5
GENITAL ORGANS (179-187)	64	62								1							2		1			1
URINARY ORGANS (188-189)	21	13																				
LEUKEMIA (204-208)	35	13					1			1	1		1		1	2			1	2	3	
OTHER (140-208)	147	87	1	1			2		2	1		2	1		1	2	2	2	3	4		4
DIABETES MELLITUS (250)	58	70												1		1						
DISEASE OF CIRCULATORY SYSTEM (390-459)	1254	936	3	2			1	1			3	1		2	2	1	8	5	11	6	17	6
DISEASES OF HEART (390-398,402,404 410-414,415-417,420-429)	981	697	2	1				1			2	1		1	2	1	5	4	9	4	13	4
RHEUMATIC FEVER AND CHRONIC RHEUMATIC HEART DISEASE (390-398)	6	22													1	1		2		1		1
HYPERTENSIVE HEART (402,404)	35	33																			1	
ISCHEMIC HEART (410-414)	716	426															5		6	1	7	
OTHER HEART DISEASE (415-417,420-429)	224	216	2	1				1			2	1		1	1			2	3	2	5	3
HYPERTENSION (401,403)	9	9									1										1	
CEREBROVASCULAR DISEASE (430-438)	204	171	1											1			2	1	2	1	3	2
ARTERIOSCLEROSIS (440)	19	34																				
OTHER CIRCULATORY (441-459)	41	25		1			1										1			1		
INFLUENZA/PNEUMONIA (480-487)	97	63	1		2	1	1	2							1							2
BRONCHITIS/EMPHYSEMA/ASTHMA (490-493)	33	31						1						1	1	2			1	1		2
PEPTIC ULCER (531-533)	12	4		1																		
CIRRHOSIS OF LIVER (571)	40	20													1				4		1	
NEPHRITIS AND NEPHROSIS (580-589)	24	20						1				1						1				
COMPLICATIONS OF PREG, CHILDBIRTH & PUERPERIUM (630-676)		1																		1		
CONGENITAL ANOMALIES (740-759)	31	20	27	12		1	1	1	1					1		1		1				
PERINATAL CONDITIONS (760-779)	41	29	41	29																		
SYMPTOMS & ILL-DEFINED COND (780-799)	37	21	18	7		1									1	1	1	1	1		3	
ALL OTHER DISEASES (BLANKS,000-799)	285	220	5	3	2	1	4	3				1	2	1	5	2	1	1	5	3	5	3
ACCIDENTAL DEATHS (800-949)	202	77	2	1	6	6	4	2	2	2	3	1	16	3	37	8	19	4	19	4	9	6
MOTOR VEHICLE (810-825)	111	49	1	1	3	1	1		1	1	1	1	13	3	27	5	16	3	9	4	8	5
OTHER TRANS. (800-807,826-848)	10	1											1		1		1	1	3		1	
POISONING (850-869)	5														1				2			
FALLS (880-888)	27	7				1				1					2				1			
FIRES (890-899)	4	1				1													1			
DROWNING & SUBMERSIONS (910)	25	10	1		3	2	2	2					2		3	3	2		2			
FIREARM MISSILES (922)	2					1																
ADVERSE EFFECTS (930-949)	1																					
OTHER ACCIDENTS (800-949)	17	9				1			1		2				3				1			1
SUICIDE (950-959)	81	23							2		3	1	2	2	16	4	13	2	12	4	8	
HOMICIDE & LEGAL INTERVENTION (960-978)	25	4				1			1				1		8	1	2		2		4	
ALL OTHER EXTERNAL CAUSES (800-999,XXXX)	29	11			2								2	1	1	2	3		4	2	4	1

TABLE 32A (CONT'D)

RESIDENT DEATHS BY AGE GROUP, BY SEX AND BY SELECTED CAUSES OF DEATH
STATE OF HAWAII 1982

UNKNOWN SEX IN MALE CATEG.	40-44 YRS.		45-49 YRS.		50-54 YRS.		55-59 YRS.		60-64 YRS.		65-69 YRS.		70-74 YRS.		75-79 YRS.		80-84 YRS.		OVER 84		UN-KNOWN	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
TOTAL DEATHS	71	45	86	60	139	100	195	144	323	144	349	217	369	207	386	226	316	257	365	484		
TUBERCULOSIS, ALL FORMS (010-018,137)												1	1	2		1	1	1				
SYPHILIS AND ITS SEQUELAE (090-097)																						
OTHER INFECTIVE & PARASITIC DISEASES (000-139)	3				1	1	1	5	2	4	5	3	3	4	3	2	5	2	5	6		
MALIGNANT NEOPLASM (140-208)	17	16	23	29	41	44	73	57	118	60	129	72	97	60	94	42	69	47	47	50		
DIGEST. ORGANS (150-159)	3	1	11	7	14	8	27	14	45	19	60	29	30	17	35	18	31	19	17	23		
RESPIRATORY SYSTEM (160-163)	3	2	2	4	13	12	22	13	40	13	31	11	38	13	21	6	14	4	7	11		
BREAST (174-175)		5		7		11		13		10		8		10		2		8		7		
GENITAL ORGANS (179-187)		4		6	1	9	4	6	5	10	9	8	10	8	12	6	11	2	9	1		
URINARY ORGANS (188-189)			1				1	2	5	2	1	2	3		7	2	2	1	1	4		
LEUKEMIA (204-208)	2		2	2	1	1			2	1	7	2	4	1	5		2		2	1		
OTHER (140-208)	9	4	7	3	12	3	19	9	21	5	21	12	12	11	14	8	9	13	11	3		
DIABETES MELLITUS (250)	4	1	2	2	2	2	3	3	7	4	8	10	8	11	9	10	6	11	9	14		
DISEASE OF CIRCULATORY SYSTEM (390-459)	22	15	30	15	59	29	73	49	139	54	146	97	182	91	201	114	62	153	195	295		
DISEASES OF HEART (390-398,402,404 410-414,415-417,420-429)	21	13	26	12	50	20	60	38	116	42	114	79	141	66	153	88	21	109	146	215		
RHEUMATIC FEVER AND CHRONIC RHEUMATIC HEART DISEASE (390-398)		2	1	1		2	1	1		1	1	5	1	3					1	2		
HYPERTENSIVE HEART (402,404)				1	2		1		3	1	2	4	5	6	14	10	4	5	3	6		
ISCHEMIC HEART (410-414)	18	4	20	7	36	16	43	23	93	26	85	52	103	38	110	53	85	72	105	134		
OTHER HEART DISEASE (415-417,420-429)	3	5	5	3	12	2	15	14	20	14	26	18	32	19	29	25	32	32	37	73		
HYPERTENSION (401,403)									1	1		1	1	2	2			2	3	3		
CEREBROVASCULAR DISEASE (430-438)	1	4	4	3	8	8	11	9	18	10	23	13	28	16	39	17	31	31	33	55		
ARTERIOSCLEROSIS (440)						1				1	1	1	3	2	1	5	4	9	10	15		
OTHER CIRCULATORY (441-459)					1		2	2	4		8	3	9	5	6	4	6	2	3	7		
INFLUENZA/PNEUMONIA (480-487)			1	2			2	2	5	3	3	2	13	4	16	7	18	6	34	32		
BRONCHITIS/EMPHYSEMA/ASTHMA (490-493)	1		1	2	1	1		1	4	4	5	3	8	3	5	6	4	3	2	1		
PEPTIC ULCER (531-533)						1			1		3		1		3	1	3		1	1		
CIRRHOSIS OF LIVER (571)	1		3	2	2	2	7	5	6	3	2	1	5	2	6	4	1		1	1		
NEPHRITIS AND NEPHROSIS (580-589)	1		1			2			4	1	1	1	3	1	3	3	7	2	4	7		
COMPLICATIONS OF PREG. CHILDBIRTH & PUERPERIUM (630-676)							1	1	1									1		1		
CONGENITAL ANOMALIES (740-759)																						
PERINATAL CONDITIONS (760-779)						1	2	1	1		2	1	4	1		1	3	1	1	5		
SYMPTOMS & ILL-DEFINED COND (780-799)																						
ALL OTHER DISEASES (BLANKS,000-799)	3	4	11	4	15	12	19	11	21	9	32	22	34	21	36	29	30	26	55	64		
ACCIDENTAL DEATHS (800-949)	12	4	8	3	9	3	6	4	9	1	11	4	9	6	8	5	4	4	9	6		
MOTOR VEHICLE (810-825)	4	4	3	3	4	3	3	3	2	1	4	3	5	6	4		1	1	1	1		
OTHER TRANS. (800-807,826-848)			2				1															
POISONING (850-869)					1				1													
FALLS (880-888)	1				2		1	1	4		4		2		3	3	1	1	6			
FIRES (890-899)	2										1											
DROWNING & SUBMERSIONS (910)	4		2						1		1	1			1	1			1	1		
FIREARM MISSILES (922)	1																					
ADVERSE EFFECTS (930-949)			1																			
OTHER ACCIDENTS (800-949)					2		1		1		1		2			1	2	2	1	4		
SUICIDE (950-959)	4	4	2		3	1	5	2	4	1	2			1	1	1	2		1			
HOMICIDE & LEGAL INTERVENTION (960-978)	1		3	1	2	1	1															
ALL OTHER EXTERNAL CAUSES (800-999,XXXX)	2	1	1		4		2	3	1						1		1		1	1		

TABLE 32B

RESIDENT DEATHS BY AGE GROUP, BY SEX AND BY SELECTED CAUSES OF DEATH
HONOLULU COUNTY 1982

CAUSES OF DEATH (UNKNOWN SEX IN MALE CATEG.)	ALL AGES		UNDER 1 YR.		1-4 YRS.		5-9 YRS.		10-14 YRS.		15-17 YRS.		18-19 YRS.		20-24 YRS.		25-29 YRS.		30-34 YRS.		35-39 YRS.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
TOTAL DEATHS	2205	1564	80	44	11	7	12	9	6	4	9	6	19	10	60	18	35	12	42	22	45	21
TUBERCULOSIS, ALL FORMS (010-018,137)	2	5																				
SYPHILIS AND ITS SEQUELAE (090-097)																						
OTHER INFECTIVE & PARASITIC DISEASES (000-139)	24	25	1	2									1			1			1		1	
MALIGNANT NEOPLASM (140-208)	557	391		1			2		2	3	1	2	3		2	3	5	3	5	7	5	10
DIGEST. ORGANS (150-159)	208	118											1				1		1	1	1	2
RESPIRATORY SYSTEM (160-163)	156	72																			2	
BREAST (174-175)		66																1		2		5
GENITAL ORGANS (179-187)	51	48								1							2		1			1
URINARY ORGANS (188-189)	16	11																				
LEUKEMIA (204-208)	27	9					1			1	1		1		1	2			1	1	2	
OTHER (140-208)	99	67		1			1		2	1		2	1		1	1	2	2	2	3		2
DIABETES MELLITUS (250)	49	42												1		1						
DISEASE OF CIRCULATORY SYSTEM (390-459)	909	699	2	1			1	1			2	1		1	2	1	6	3	8	5	14	4
DISEASES OF HEART (390-398,402,404 410-414,415-417,420-429)	719	534	1	1				1			1	1		1	2	1	4	2	6	4	10	3
RHEUMATIC FEVER AND CHRONIC RHEUMATIC HEART DISEASE (390-398)	6	15													1	1		1		1		
HYPERTENSIVE HEART (402,404)	20	24																			1	
ISCHEMIC HEART (410-414)	525	332															4		5	1	6	
OTHER HEART DISEASE (415-417,420-429)	168	163	1	1				1			1	1		1	1			1	1	2	3	3
HYPERTENSION (401,403)	6	5									1										1	
CEREBROVASCULAR DISEASE (430-438)	145	120	1														2	1	2		3	1
ARTERIOSCLEROSIS (440)	10	24																				
OTHER CIRCULATORY (441-459)	29	16					1													1		
INFLUENZA/PNEUMONIA (480-487)	59	48	1		2		1	1							1							1
BRONCHITIS/EMPHYSEMA/ASTHMA (490-493)	26	22												1	1				1	1		
PEPTIC ULCER (531-533)	5	1																				
CIRRHOSIS OF LIVER (571)	35	12													1				3		1	
NEPHRITIS AND NEPHROSIS (580-589)	15	15						1				1						1				
COMPLICATIONS OF PREG, CHILDBIRTH & PUERPERIUM (630-676)		1																		1		
CONGENITAL ANOMALIES (740-759)	24	15	20	8		1	1	1	1					1		1						
PERINATAL CONDITIONS (760-779)	36	24	36	24																		
SYMPTOMS & ILL-DEFINED COND (780-799)	28	19	15	6		1									1	1	1	1	1		2	
ALL OTHER DISEASES (BLANKS,000-799)	204	166	5	2	1	1	3	3				1	1	1	3	1		1	4	3	5	
ACCIDENTAL DEATHS (800-949)	135	53			6	3	4	2		1	3	1	9	2	27	5	11	3	11		6	6
MOTOR VEHICLE (810-825)	69	30			3		1				1	1	6	2	19	3	9	2	4		5	5
OTHER TRANS. (800-807,826-848)	8	1											1		1		1	1	3		1	
POISONING (850-869)	4														1				1			
FALLS (880-888)	20	6				1				1					2				1			
FIRES (890-899)	4																		1			
DROWNING & SUBMERSIONS (910)	18	7			3	1	2	2					2		2	2	1		1			
FIREARM MISSILES (922)	1						1															
ADVERSE EFFECTS (930-949)	1																					
OTHER ACCIDENTS (800-949)	10	9				1					2				2							1
SUICIDE (950-959)	59	16							2		3		2	2	13	3	8		6	3	7	
HOMICIDE & LEGAL INTERVENTION (960-978)	20	2				1			1				1		8		2		1		3	
ALL OTHER EXTERNAL CAUSES (800-999,XXXX)	18	8			2								2	1	1	1	2		1	2	1	

TABLE 32B (CONT'D)

RESIDENT DEATHS BY AGE GROUP, BY SEX AND BY SELECTED CAUSES OF DEATH
HONOLULU COUNTY 1982

UNKNOWN SEX IN MALE CATEG.	40-44 YRS.		45-49 YRS.		50-54 YRS.		55-59 YRS.		60-64 YRS.		65-69 YRS.		70-74 YRS.		75-79 YRS.		80-84 YRS.		OVER 84		UNKNOWN	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
TOTAL DEATHS	55	36	60	46	101	76	151	115	241	111	272	166	262	153	270	157	228	187	246	364		
TUBERCULOSIS, ALL FORMS (010-018,137)												1	1	2		1	1	1				
SYPHILIS AND ITS SEQUELAE (090-097)																						
OTHER INFECTIVE & PARASITIC DISEASES (000-139)	2				1			5	1	3	5	3	2	4	2	1	3	2	4	4		
MALIGNANT NEOPLASM (140-208)	15	14	15	24	29	35	59	49	93	43	105	56	70	44	66	30	47	29	33	38		
DIGEST. ORGANS (150-159)	3	1	7	7	10	8	25	11	37	14	45	20	22	13	21	12	21	10	13	19		
RESPIRATORY SYSTEM (160-163)	2	2	1	3	11	8	16	13	31	10	28	11	28	9	19	4	11	4	7	8		
BREAST (174-175)		4		7		8		11		5		6		5		1		5		6		
GENITAL ORGANS (179-187)		4		4		8	4	4	5	6	6	7	10	7	9	5	6	1	8			
URINARY ORGANS (188-189)			1				1	2	5	2	1	1	2		3	1	2	1	1	4		
LEUKEMIA (204-208)	2		1	1	1	1			2	1	7	1	2	1	4		1					
OTHER (140-208)	8	3	5	2	7	2	13	8	13	5	18	10	6	9	10	7	6	8	4	1		
DIABETES MELLITUS (250)	4	1	2	2	2	1	3	2	4	2	8	7	7	6	8	4	4	5	7	10		
DISEASE OF CIRCULATORY SYSTEM (390-459)	15	11	22	12	46	23	54	36	103	43	109	77	130	67	143	82	119	118	133	213		
DISEASES OF HEART (390-398,402,404 410-414,415-417,420-429)	14	8	19	10	39	14	45	29	88	34	84	64	106	52	108	61	93	86	99	162		
RHEUMATIC FEVER AND CHRONIC RHEUMATIC HEART DISEASE (390-398)		1	1	1		1	1	1		1	1	3	1	2					1	2		
HYPERTENSIVE HEART (402,404)				1	1		1		2	1	2	3	3	4	8	6	1	4	1	5		
ISCHEMIC HEART (410-414)	11	4	15	6	27	11	31	17	69	21	82	44	79	29	78	37	67	56	71	106		
OTHER HEART DISEASE (415-417,420-429)	3	3	3	2	11	2	12	11	17	11	19	14	23	17	22	18	25	26	26	49		
HYPERTENSION (401,403)									1	1		1	1		1			1	1	2		
CEREBROVASCULAR DISEASE (430-438)	1	3	3	2	6	8	8	5	10	7	20	9	19	12	27	14	19	24	24	34		
ARTERIOSCLEROSIS (440)						1				1		1	2	2	1	4	1	5	6	10		
OTHER CIRCULATORY (441-459)					1		1	2	4		5	2	2	1	6	3	6	2	3	5		
INFLUENZA/PNEUMONIA (480-487)			1	2			2	1	3	3	2	1	7	3	7	4	13	3	19	29		
BRONCHITIS/EMPHYSEMA/ASTHMA (490-493)			1	2		1			4	4	4	2	7	3	4	4	3	3	1	1		
PEPTIC ULCER (531-533)									1		1				2	1	1					
CIRRHOSIS OF LIVER (571)			3	1	2		5	4	6	3	2		4		6	3	1		1	1		
NEPHRITIS AND NEPHROSIS (580-589)	1		1			1			1	1	1	1	2	1	1	2	5	1	3	5		
COMPLICATIONS OF PREG, CHILDBIRTH & PUERPERIUM (630-676)																						
CONGENITAL ANOMALIES (740-759)							1	1	1									1		1		
PERINATAL CONDITIONS (760-779)																						
SYMPTOMS & ILL-DEFINED COND (780-799)							2	1			2	1	2	1		1	2	1		5		
ALL OTHER DISEASES (BLANKS,000-799)	3	3	6	2	11	12	16	7	13	7	26	15	24	17	23	20	22	19	38	51		
ACCIDENTAL DEATHS (800-949)	10	2	5	1	5	2	4	4	7	1	6	2	5	4	6	4	4	4	6	6		
MOTOR VEHICLE (810-825)	4	2	2	1	2	2	3	3		1	2	2	3	4	3		1	1	1	1		
OTHER TRANS. (800-807,826-848)			1																			
POISONING (850-869)					1				1													
FALLS (880-888)					2			1	4		2		1		2	2	1	1	5			
FIRES (890-899)	2										1											
DROWNING & SUBMERSIONS (910)	4		1						1						1	1				1		
FIREARM MISSILES (922)																						
ADVERSE EFFECTS (930-949)			1																			
OTHER ACCIDENTS (800-949)							1		1		1		1			1	2	2		4		
SUICIDE (950-959)	2	4	2		1		4	2	4	1	1		1	1	1		2					
HOMICIDE & LEGAL INTERVENTION (960-978)	1		2		1	1																
ALL OTHER EXTERNAL CAUSES (800-999,XXXX)	2	1			3		1	3							1		1		1			

TABLE 32C

RESIDENT DEATHS BY AGE GROUP, BY SEX AND BY SELECTED CAUSES OF DEATH
HAWAII COUNTY 1982

CAUSES OF DEATH UNKNOWN SEX IN MALE CATEG.	ALL AGES		UNDER 1 YR.		1-4 YRS.		5-9 YRS.		10-14 YRS.		15-17 YRS.		18-19 YRS.		20-24 YRS.		25-29 YRS.		30-34 YRS.		35-39 YRS.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
TOTAL DEATHS	354	238	8	6	1	4	1	2		1	1			2	5	6	9	3	14	4	5	5
TUBERCULOSIS, ALL FORMS (010-018,137)																						
SYPHILIS AND ITS SEQUELAE (090-097)																						
OTHER INFECTIVE & PARASITIC DISEASES (000-139)	5	7		1		1		1												1		
MALIGNANT NEOPLASM (140-208)	79	51	1				1									1			1	1	1	2
DIGEST. ORGANS (150-159)	26	21																				1
RESPIRATORY SYSTEM (160-163)	15	4																				
BREAST (174-175)		9																				
GENITAL ORGANS (179-187)	8	7																				
URINARY ORGANS (188-189)	2	1																				
LEUKEMIA (204-208)	5	2																			1	
OTHER (140-208)	23	7	1				1									1			1	1		1
DIABETES MELLITUS (250)	5	14																				
DISEASE OF CIRCULATORY SYSTEM (390-459)	150	98									1			1			2		2	1		2
DISEASES OF HEART (390-398,402,404 410-414,415-417,420-429)	106	61									1						1		2			1
RHEUMATIC FEVER AND CHRONIC RHEUMATIC HEART DISEASE (390-398)		3																				1
HYPERTENSIVE HEART (402,404)	3	1																				
ISCHEMIC HEART (410-414)	83	43															1		1			
OTHER HEART DISEASE (415-417,420-429)	20	14									1								1			
HYPERTENSION (401,403)		1																				
CEREBROVASCULAR DISEASE (430-438)	32	25												1						1		1
ARTERIOSCLEROSIS (440)	6	7																				
OTHER CIRCULATORY (441-459)	6	4															1					
INFLUENZA/PNEUMONIA (480-487)	13	9				1																
BRONCHITIS/EMPHYSEMA/ASTHMA (490-493)	4	4						1														1
PEPTIC ULCER (531-533)	3	1		1																		
CIRRHOSIS OF LIVER (571)	1	5																				
NEPHRITIS AND NEPHROSIS (580-589)	2	3																				
COMPLICATIONS OF PREG. CHILDBIRTH & PUERPERIUM (630-676)																						
CONGENITAL ANOMALIES (740-759)	3	3	3	2														1				
PERINATAL CONDITIONS (760-779)	1		1																			
SYMPTOMS & ILL-DEFINED COND (780-799)	6	2	2	1																		
ALL OTHER DISEASES (BLANKS,000-799)	37	22			1										1	1			1			
ACCIDENTAL DEATHS (800-949)	25	15	1	1		2				1			4	1	3	1	2	1	4	1	1	
MOTOR VEHICLE (810-825)	19	13	1	1		1				1			4	1	3	1	1	1	2	1	1	
OTHER TRANS. (800-807,826-848)																						
POISONING (850-869)	1																		1			
FALLS (880-888)	2																					
FIRES (890-899)																						
DROWNING & SUBMERSIONS (910)	2	2				1											1		1			
FIREARM MISSILES (922)																						
ADVERSE EFFECTS (930-949)																						
OTHER ACCIDENTS (800-949)	1																					
SUICIDE (950-959)	14	2													1	1	5	1	4		1	
HOMICIDE & LEGAL INTERVENTION (960-978)	1	1														1					1	
ALL OTHER EXTERNAL CAUSES (800-999,XXXX)	5	1														1			2		1	

TABLE 32C (CONT'D)

RESIDENT DEATHS BY AGE GROUP, BY SEX AND BY SELECTED CAUSES OF DEATH
HAWAII COUNTY 1982

UNKNOWN SEX IN MALE CATEG.	40-44 YRS.		45-49 YRS.		50-54 YRS.		55-59 YRS.		60-64 YRS.		65-69 YRS.		70-74 YRS.		75-79 YRS.		80-84 YRS.		OVER 84		UNKNOWN	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
TOTAL DEATHS	5	4	13	9	12	8	19	18	33	7	41	25	44	24	52	27	36	37	51	46		
TUBERCULOSIS, ALL FORMS (010-018,137)																						
SYPHILIS AND ITS SEQUELAE (090-097)																						
OTHER INFECTIVE & PARASITIC DISEASES (000-139)										1			1		1	1	2		1	1		
MALIGNANT NEOPLASM (140-208)	1		4	3	4	2	7	4	10	3	11	7	11	6	14	8	6	10	7	4		
DIGEST. ORGANS (150-159)			2				1	2	1	2	6	3	4	2	7	4	2	5	1	2		
RESPIRATORY SYSTEM (160-163)				1	1		3		4		2		3	2		1	2					
BREAST (174-175)						1		1		1		1		1		1		3				
GENITAL ORGANS (179-187)				1	1	1		1			1	1			3	1	2	1	1	1		
URINARY ORGANS (188-189)													1		1	1						
LEUKEMIA (204-208)			1	1								1	1		1				1			
OTHER (140-208)	1		1		2		3		5			1	2	1	2			1	4	1		
DIABETES MELLITUS (250)								1	2			1		3	1	2	2	5		2		
DISEASE OF CIRCULATORY SYSTEM (390-459)	3	2	5	3	2	2	8	9	15	3	23	8	21	9	25	13	17	15	26	30		
DISEASES OF HEART (390-398,402,404 410-414,415-417,420-429)	3	1	4	2	1	2	6	6	11	3	18	5	12	6	19	10	10	7	18	18		
RHEUMATIC FEVER AND CHRONIC RHEUMATIC HEART DISEASE (390-398)						1								1								
HYPERTENSIVE HEART (402,404)													2			1	1					
ISCHEMIC HEART (410-414)	3		2	1		1	6	4	10	3	14	4	7	5	17	6	8	6	14	13		
OTHER HEART DISEASE (415-417,420-429)		1	2	1	1			2	1		4	1	3		2	3	1	1	4	5		
HYPERTENSION (401,403)																				1		
CEREBROVASCULAR DISEASE (430-438)		1	1	1	1		1	3	4		2	2	6	1	6	2	5	5	6	7		
ARTERIOSCLEROSIS (440)											1		1			1	2	3	2	3		
OTHER CIRCULATORY (441-459)							1				2	1	2	2						1		
INFLUENZA/PNEUMONIA (480-487)								1	1			1	1	1	2		1	2	8	3		
BRONCHITIS/EMPHYSEMA/ASTHMA (490-493)											1	1	1		1	1	1					
PEPTIC ULCER (531-533)											1		1				1					
CIRRHOSIS OF LIVER (571)						1	1	1				1		2								
NEPHRITIS AND NEPHROSIS (580-589)						1							1				1	1		1		
COMPLICATIONS OF PREG. CHILDBIRTH & PUERPERIUM (630-676)																						
CONGENITAL ANOMALIES (740-759)																						
PERINATAL CONDITIONS (760-779)																						
SYMPTOMS & ILL-DEFINED COND (780-799)						1			1				1				1		1			
ALL OTHER DISEASES (BLANKS,000-799)		1	2	1	3		2	2	3		2	4	5	2	7	2	4	4	6	5		
ACCIDENTAL DEATHS (800-949)		1	1	2	2	1			1		3	2	1	1	1				1			
MOTOR VEHICLE (810-825)		1	1	2	1	1			1		2	1	1	1	1							
OTHER TRANS. (800-807,826-848)																						
POISONING (850-869)																						
FALLS (880-888)											1								1			
FIRES (890-899)																						
DROWNING & SUBMERSIONS (910)												1										
FIREARM MISSILES (922)																						
ADVERSE EFFECTS (930-949)																						
OTHER ACCIDENTS (800-949)					1																	
SUICIDE (950-959)	1				1														1			
HOMICIDE & LEGAL INTERVENTION (960-978)																						
ALL OTHER EXTERNAL CAUSES (800-999,XXXX)			1				1															

TABLE 32D

RESIDENT DEATHS BY AGE GROUP, BY SEX AND BY SELECTED CAUSES OF DEATH
KAUAI COUNTY 1982

CAUSES OF DEATH	ALL AGES		UNDER 1 YR.		1-4 YRS.		5-9 YRS.		10-14 YRS.		15-17 YRS.		18-19 YRS.		20-24 YRS.		25-29 YRS.		30-34 YRS.		35-39 YRS.	
UNKNOWN SEX IN MALE CATEG.	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
TOTAL DEATHS	173	107	5	4		1			1				2		3	1	2	2	3	1	2	5
TUBERCULOSIS, ALL FORMS (010-018,137)																						
SYPHILIS AND ITS SEQUELAE (090-097)																						
OTHER INFECTIVE & PARASITIC DISEASES (000-139)																						
MALIGNANT NEOPLASM (140-208)	27	23																				1
DIGEST. ORGANS (150-159)	12	4																				
RESPIRATORY SYSTEM (160-163)	6	4																				
BREAST (174-175)		7																				
GENITAL ORGANS (179-187)	3	2																				
URINARY ORGANS (188-189)	1																					
LEUKEMIA (204-208)		1																				
OTHER (140-208)	5	5																				1
DIABETES MELLITUS (250)	1	6																				
DISEASE OF CIRCULATORY SYSTEM (390-459)	89	51	1															1			1	
DISEASES OF HEART (390-398,402,404 410-414,415-417,420-429)	75	39	1															1			1	
RHEUMATIC FEVER AND CHRONIC RHEUMATIC HEART DISEASE (390-398)		1																				
HYPERTENSIVE HEART (402,404)	10	5																				
ISCHEMIC HEART (410-414)	47	17																			1	
OTHER HEART DISEASE (415-417,420-429)	18	16	1															1				
HYPERTENSION (401,403)	1	1																				
CEREBROVASCULAR DISEASE (430-438)	10	8																				
ARTERIOSCLEROSIS (440)	1	1																				
OTHER CIRCULATORY (441-459)	2	2																				
INFLUENZA/PNEUMONIA (480-487)	5	2																				1
BRONCHITIS/EMPHYSEMA/ASTHMA (490-493)	2	1														1						
PEPTIC ULCER (531-533)																						
CIRRHOSIS OF LIVER (571)	1																					
NEPHRITIS AND NEPHROSIS (580-589)	4	1																				
COMPLICATIONS OF PREG, CHILDBIRTH & PUERPERIUM (630-676)																						
CONGENITAL ANOMALIES (740-759)	1	1	1	1																		
PERINATAL CONDITIONS (760-779)	2	3	2	3																		
SYMPTOMS & ILL-DEFINED COND (780-799)																						
ALL OTHER DISEASES (BLANKS,000-799)	21	13											1		1							3
ACCIDENTAL DEATHS (800-949)	11	4	1			1			1				1		1		1		1	1		
MOTOR VEHICLE (810-825)	4	2											1				1			1		
OTHER TRANS. (800-807,826-848)																						
POISONING (850-869)																						
FALLS (880-888)	2	1																				
FIRES (890-899)		1				1																
DROWNING & SUBMERSIONS (910)	2		1												1							
FIREARM MISSILES (922)																						
ADVERSE EFFECTS (930-949)																						
OTHER ACCIDENTS (800-949)	3								1										1			
SUICIDE (950-959)	4	2													1			1				
HOMICIDE & LEGAL INTERVENTION (960-978)	1																		1			
ALL OTHER EXTERNAL CAUSES (800-999,XXXX)	4																1		1		1	

TABLE 32D (CONT'D)

RESIDENT DEATHS BY AGE GROUP, BY SEX AND BY SELECTED CAUSES OF DEATH
KAUAI COUNTY 1982

UNKNOWN SEX IN MALE CATEG.	40-44 YRS.		45-49 YRS.		50-54 YRS.		55-59 YRS.		60-64 YRS.		65-69 YRS.		70-74 YRS.		75-79 YRS.		80-84 YRS.		OVER 84		UN-KNOWN	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
TOTAL DEATHS	3	2	4	1	6	7	8	5	16	12	13	9	27	8	25	16	24	11	29	22		
TUBERCULOSIS, ALL FORMS (010-018,137)																						
SYPHILIS AND ITS SEQUELAE (090-097)																						
OTHER INFECTIVE & PARASITIC DISEASES (000-139)																						
MALIGNANT NEOPLASM (140-208)		2	1		1	3	1	3	1	6	3	2	7	2	5		6	3	2	1		
DIGEST. ORGANS (150-159)					1				1	1	2	1	3	1	2		2	1	1			
RESPIRATORY SYSTEM (160-163)			1			2				1			3	1	1		1					
BREAST (174-175)		1				1		1		3		1										
GENITAL ORGANS (179-187)								1		1	1						2					
URINARY ORGANS (188-189)															1							
LEUKEMIA (204-208)																				1		
OTHER (140-208)		1					1	1					1		1		1	2	1			
DIABETES MELLITUS (250)						1				2								1	1	2		
DISEASE OF CIRCULATORY SYSTEM (390-459)			1		1	3	5	1	10	4	6	6	14	4	16	8	15	7	19	17		
DISEASES OF HEART (390-398,402,404 410-414,415-417,420-429)			1		1	3	5	1	8	2	5	5	11	3	13	7	12	5	17	12		
RHEUMATIC FEVER AND CHRONIC RHEUMATIC HEART DISEASE (390-398)												1										
HYPERTENSIVE HEART (402,404)									1					2	5	2	2		2	1		
ISCHEMIC HEART (410-414)			1		1	3	3	1	5		5	2	7	1	5	4	8	2	11	4		
OTHER HEART DISEASE (415-417,420-429)							2		2	2		2	4		3	1	2	3	4	7		
HYPERTENSION (401,403)																		1	1			
CEREBROVASCULAR DISEASE (430-438)									2	2		1	2		3		3	1		4		
ARTERIOSCLEROSIS (440)																			1	1		
OTHER CIRCULATORY (441-459)											1		1	1		1						
INFLUENZA/PNEUMONIA (480-487)													1		1	1	1		2			
BRONCHITIS/EMPHYSEMA/ASTHMA (490-493)	1				1																	
PEPTIC ULCER (531-533)																						
CIRRHOSIS OF LIVER (571)													1									
NEPHRITIS AND NEPHROSIS (580-589)									2						1				1	1		
COMPLICATIONS OF PREG, CHILDBIRTH & PUERPERIUM (630-676)																						
CONGENITAL ANOMALIES (740-759)																						
PERINATAL CONDITIONS (760-779)																						
SYMPTOMS & ILL-DEFINED COND (780-799)																						
ALL OTHER DISEASES (BLANKS,000-799)			2	1				1	3		3	1	3	1	2	5	2		4	1		
ACCIDENTAL DEATHS (800-949)	1				2		1						1	1		1						
MOTOR VEHICLE (810-825)					1								1	1								
OTHER TRANS. (800-807,826-848)																						
POISONING (850-869)																1						
FALLS (880-888)	1						1															
FIRES (890-899)																						
DROWNING & SUBMERSIONS (910)																						
FIREARM MISSILES (922)																						
ADVERSE EFFECTS (930-949)																						
OTHER ACCIDENTS (800-949)					1																	
SUICIDE (950-959)	1						1				1					1						
HOMICIDE & LEGAL INTERVENTION (960-978)																						
ALL OTHER EXTERNAL CAUSES (800-999,XXXX)					1																	

TABLE 32E

RESIDENT DEATHS BY AGE GROUP, BY SEX AND BY SELECTED CAUSES OF DEATH
MAUI COUNTY 1982

CAUSES OF DEATH (UNKNOWN SEX IN MALE CATEG.)	ALL AGES		UNDER 1 YR.		1-4 YRS.		5-9 YRS.		10-14 YRS.		15-17 YRS.		18-19 YRS.		20-24 YRS.		25-29 YRS.		30-34 YRS.		35-39 YRS.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
TOTAL DEATHS	288	192	6	5			1	1	1			1	2		7	3	6	1	7	4	7	3
TUBERCULOSIS, ALL FORMS (010-018,137)																						
SYPHILIS AND ITS SEQUELAE (090-097)																						
OTHER INFECTIVE & PARASITIC DISEASES (000-139)	2	2																				
MALIGNANT NEOPLASM (140-208)	75	48																		1	1	1
DIGEST. ORGANS (150-159)	32	16																			1	
RESPIRATORY SYSTEM (160-163)	16	10																				1
BREAST (174-175)		7																				
GENITAL ORGANS (179-187)	2	5																				
URINARY ORGANS (188-189)	2	1																				
LEUKEMIA (204-208)	3	1																		1		
OTHER (140-208)	20	8																				
DIABETES MELLITUS (250)	3	8																				
DISEASE OF CIRCULATORY SYSTEM (390-459)	106	88		1														1	1		2	
DISEASES OF HEART (390-398,402,404 410-414,415-417,420-429)	81	63																1	1		2	
RHEUMATIC FEVER AND CHRONIC RHEUMATIC HEART DISEASE (390-398)		3																1				
HYPERTENSIVE HEART (402,404)	2	3																				
ISCHEMIC HEART (410-414)	61	34																				
OTHER HEART DISEASE (415-417,420-429)	18	23																	1		2	
HYPERTENSION (401,403)	2	2																				
CEREBROVASCULAR DISEASE (430-438)	17	18																				
ARTERIOSCLEROSIS (440)	2	2																				
OTHER CIRCULATORY (441-459)	4	3		1																		
INFLUENZA/PNEUMONIA (480-487)	20	4						1														
BRONCHITIS/EMPHYSEMA/ASTHMA (490-493)	1	4														1						1
PEPTIC ULCER (531-533)	4	2																				
CIRRHOSIS OF LIVER (571)	3	3																	1			
NEPHRITIS AND NEPHROSIS (580-589)	3																					
COMPLICATIONS OF PREG, CHILDBIRTH & PUERPERIUM (630-676)																						
CONGENITAL ANOMALIES (740-759)	3	1	3	1																		
PERINATAL CONDITIONS (760-779)	2	2	2	2																		
SYMPTOMS & ILL-DEFINED COND (780-799)	3		1																		1	
ALL OTHER DISEASES (BLANKS,000-799)	23	19		1			1						2		6	2	5		3	2	2	
ACCIDENTAL DEATHS (800-949)	31	5							1				2		6	2	5		3	2	2	
MOTOR VEHICLE (810-825)	19	4							1				2		5	1	5		3	2	2	
OTHER TRANS. (800-807,826-848)	2																					
POISONING (850-869)																						
FALLS (880-888)	3																					
FIRES (890-899)																						
DROWNING & SUBMERSIONS (910)	3	1														1						
FIREARM MISSILES (922)	1																					
ADVERSE EFFECTS (930-949)																						
OTHER ACCIDENTS (800-949)	3														1							
SUICIDE (950-959)	4	3										1			1				2	1		
HOMICIDE & LEGAL INTERVENTION (960-978)	3	1																				
ALL OTHER EXTERNAL CAUSES (800-999,XXXX)	2	2																			1	1

TABLE 32E (CONT'D)

RESIDENT DEATHS BY AGE GROUP, BY SEX AND BY SELECTED CAUSES OF DEATH
MAUI COUNTY 1982

UNKNOWN SEX IN MALE CATEG.	40-44 YRS.		45-49 YRS.		50-54 YRS.		55-59 YRS.		60-64 YRS.		65-69 YRS.		70-74 YRS.		75-79 YRS.		80-84 YRS.		OVER 84		UNKNOWN	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
TOTAL DEATHS	8	3	9	4	20	9	17	6	32	14	23	17	36	22	39	25	28	22	39	52		
TUBERCULOSIS, ALL FORMS (010-018,137)																						
SYPHILIS AND ITS SEQUELAE (090-097)																						
OTHER INFECTIVE & PARASITIC DISEASES (000-139)	1					1	1													1		
MALIGNANT NEOPLASM (140-208)	1		3	2	7	4	6	1	14	8	10	7	5	8	9	4	10	5	5	7		
DIGEST. ORGANS (150-159)			2		3		1	1	6	2	5	5	1	1	5	2	6	3	2	2		
RESPIRATORY SYSTEM (160-163)	1				1	2	3		5	2	1		4	1	1	1				3		
BREAST (174-175)						1				1				4						1		
GENITAL ORGANS (179-187)				1						3	1			1			1					
URINARY ORGANS (188-189)												1			2							
LEUKEMIA (204-208)													1				1		1			
OTHER (140-208)			1	1	3	1	2		3		3	1	3	1	1	1	2	2	2	1		
DIABETES MELLITUS (250)									1			2	1	2		4			1			
DISEASE OF CIRCULATORY SYSTEM (390-459)	4	2	2		10	1	6	3	11	4	8	6	17	11	17	11	11	13	17	35		
DISEASES OF HEART (390-398,402,404 410-414,415-417,420-429)	4	2	2		9	1	4	2	9	3	7	5	12	5	13	10	6	11	12	23		
RHEUMATIC FEVER AND CHRONIC RHEUMATIC HEART DISEASE (390-398)		1										1										
HYPERTENSIVE HEART (402,404)					1							1			1	1		1				
ISCHEMIC HEART (410-414)	4		2		8	1	3	1	9	2	4	2	10	3	10	6	2	8	9	11		
OTHER HEART DISEASE (415-417,420-429)		1					1	1		1	3	1	2	2	2	3	4	2	3	12		
HYPERTENSION (401,403)														2	1				1			
CEREBROVASCULAR DISEASE (430-438)					1		2	1	2	1	1	1	1	3	3	1	4	1	3	10		
ARTERIOSCLEROSIS (440)																	1	1	1	1		
OTHER CIRCULATORY (441-459)													4	1						1		
INFLUENZA/PNEUMONIA (480-487)									1		1		4		6	2	3	1	5			
BRONCHITIS/EMPHYSEMA/ASTHMA (490-493)								1								1			1			
PEPTIC ULCER (531-533)						1					1				1		1		1	1		
CIRRHOSIS OF LIVER (571)	1			1		1	1									1						
NEPHRITIS AND NEPHROSIS (580-589)									1						1		1					
COMPLICATIONS OF PREG. CHILDBIRTH & PUERPERIUM (630-676)																						
CONGENITAL ANOMALIES (740-759)																						
PERINATAL CONDITIONS (760-779)																						
SYMPTOMS & ILL-DEFINED COND (780-799)													1									
ALL OTHER DISEASES (BLANKS,000-799)			1		1		1	1	2	2	1	2	2	1	4	2	2	3	7	7		
ACCIDENTAL DEATHS (800-949)	1	1	2				1		1		2		2		1				2			
MOTOR VEHICLE (810-825)		1							1													
OTHER TRANS. (800-807,826-848)			1				1															
POISONING (850-869)																						
FALLS (880-888)											1		1		1							
FIRES (890-899)																						
DROWNING & SUBMERSIONS (910)			1								1								1			
FIREARM MISSILES (922)	1																					
ADVERSE EFFECTS (930-949)																						
OTHER ACCIDENTS (800-949)													1						1			
SUICIDE (950-959)					1	1																
HOMICIDE & LEGAL INTERVENTION (960-978)			1	1	1		1															
ALL OTHER EXTERNAL CAUSES (800-999,XXXX)									1											1		

TABLE 33

TOTAL RECORDED DEATHS FROM MALIGNANT NEOPLASM BY MAJOR AND SELECTED SITES, SEX, AND AGE
STATE OF HAWAII 1982

CAUSES OF DEATH UNKNOWN SEX IN MALE CATEG.		ALL AGES		UNDER 1 YR.		1-4 YRS.		5-9 YRS.		10-14 YRS.		15-17 YRS.		18-19 YRS.		20-24 YRS.		25-29 YRS.		30-34 YRS.		35-39 YRS.	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
BUCCAL CAVITY AND PHARYNX	140-149	25	7																	1			
LIP	140																						
TONGUE	141	5	3																				
SALIVARY GLAND	142																						
GUM	143	1																					
FLOOR OF MOUTH	144	1																					
OTHER & UNSPEC PARTS OF MOUTH	145		2																				
OROPHARYNX	146	2																					
NASOPHARYNX	147	6	1																	1			
HYPOPHARYNX	148	5																					
UNSPECIF BUCCAL CAVITY AND PHARYNX	149	5	1																				
DIGESTIVE ORGANS & PERITONEUM	150-159	285	165											1				1		1	1	3	3
ESOPHAGUS	150	35	6																				
STOMACH	151	65	44																		1	1	1
SMALL INTESTINE & DUODENUM	152	1																					
LARGE INTESTINE	153	68	47											1								1	
RECTUM & RECTOSIGMOID JUNCTION	154	20	8																				
LIVER AND INTRAHEPATIC BILE DUCTS	155	44	13															1				1	1
GALL BLADDER & BILE DUCTS	156	9	10																				1
PANCREAS	157	39	35																	1			
PERITONEUM & RETROPERITONEAL TISS	158	1																					
UNSPEC DIGESTIVE ORGANS	159	3	2																				
RESPIRATORY SYSTEM	160-165	202	94																		1	2	1
NOSE,NASAL CAV, MIDDLE EAR & ACCES	160	1	1																				
LARYNX	161	7	1																				
TRACHEA, BRONCHUS & LUNG	162	194	90																			2	1
OTHER AND UNSPECIFIED ORGANS	163-165		2																		1		
BONE, CONN TISSUE, SKIN BREAST	170-175	17	112										2				1		1		4		8
BONE	170	2	3										1								1		
CONNECTIVE & OTHER SOFT TISSUE	171	1	6										1				1				1		1
MELANOMA OF SKIN	172	7	6																				
NEOPLASM OF SKIN	173	7	2																				
BREAST	174-175		95																1		2		7
GENITOURINARY ORGANS	179-189	87	82						1		1							2		1	1		1
CERVIC UTERI	180		12																		1		1
PLACENTA	181		1																				
OTHER MALIG NEOPLASM OF UTERUS	179,182		19																				
OVARY, FALLOP TUBE & BROAD LIGAM	183		31								1												
OTHER & UNSPEC FEMALE GENITAL ORG	184		2																				
PROSTATE	185	62																					
TESTIS	186	3																2		1			
OTHER & UNSPEC MALE GENITAL ORGAN	187	1																					
BLADDER	188	16	10																				
OTHER & UNSPEC URINARY ORGANS	189	5	7						1														
OTHER AND UNSPECIFIED SITES	190-199	68	42	1	1			3		1	1			1				2	2	2	1	1	4
EYE	190																						
BRAIN	191	15	7	1	1			3		1	1			1				2					1
OTHER PARTS OF NERVOUS SYSTEM	192		1																				
THYROID GLAND	193	4																					
OTHER ENDOCRINE GLANDS	194		1																				1
ILL-DEFINED SITES	195																						
SECONDARY & UNSPECIF. MALIGNANT NEOPLASM OF LYMPH NODES	196	6	3																				
SECONDARY MALIGNANT NEOPLASM OF RESPIRATORY & DIGESTIVE SYSTEMS	197																						
OTHER SECONDARY MALIG NEOPLASM	198																						
WITHOUT SPECIFICATION OF SITE	199	43	30																2	2	1	1	2
LYMPHATIC & HEMATOPOIETIC TISS	200-208	80	40			1		1	1	2	2	1		1		1	4			1	2	3	1
LYMPHOSARCOMA & RETIC-CELL SARCO	200	7	4							2													
HODGKINS DISEASE	201	1	1														1						
OTHER NEOPLASMS OF LYMPHOID TISS	202	22	9														1						
MULTIPLE MYELOMA	203	13	8																				
LYMPHATIC LEUKEMIA	204	7	5					1				1		1			1				1		
MYELOID LEUKEMIA	205	18	11			1			1		1					1	1				1	2	
MONOCYTIC LEUKEMIA	206		1																				1
OTHER AND UNSPECIFIED LEUKEMIA	207-208	12	1								1									1		1	
TOTAL MALIGNANT NEOPLASMS	140-208	764	542	1	1	1		4	2	3	4	1	2	3		2	4	5	3	6	10	9	18

TABLE 33 (CONT'D)

TOTAL RECORDED DEATHS FROM MALIGNANT NEOPLASM BY MAJOR AND SELECTED SITES, SEX, AND AGE
STATE OF HAWAII 1982

UNKNOWN SEX IN MALE CATEG.		40-44 YRS.		45-49 YRS.		50-54 YRS.		55-59 YRS.		60-64 YRS.		65-69 YRS.		70-74 YRS.		75-79 YRS.		80-84 YRS.		OVER 84		UNKNOWN	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
BUCCAL CAVITY AND PHARYNX	140-149	2				2		3	2	4		6	2	2		3	1	1	1	1	1		
LIP	140																						
TONGUE	141	1						1	2	1						1	1	1					
SALIVARY GLAND	142																						
GUM	143															1							
FLOOR OF MOUTH	144									1													
OTHER & UNSPEC PARTS OF MOUTH	145																		1		1		
OROPHARYNX	146							1						1									
NASOPHARYNX	147	1				1		1				2	1										
HYPOPHARYNX	148									2		2		1									
UNSPECIF BUCCAL CAVITY AND PHARYNX	149					1						2	1			1				1			
DIGESTIVE ORGANS & PERITONEUM	150-159	3	1	11	7	16	9	27	14	45	21	62	30	31	19	35	18	32	19	17	23		
ESOPHAGUS	150			2		1	1	4	1	6	1	8	2	2	1	5		5		2			
STOMACH	151		1	2	2	3	5	7	4	11	3	13	8	6	3	11	4	7	4	4	8		
SMALL INTESTINE & DUODENUM	152											1											
LARGE INTESTINE	153	1		2	1	4	1	4		14	7	14	6	9	10	8	5	8	8	2	9		
RECTUM & RECTOSIGMOID JUNCTION	154	1		2				2			1	7	2	4	2	2	2	2			1		
LIVER AND INTRAHEPATIC BILE DUCTS	155	1		1		2	2	4	2	7	1	11	2	2		5	1	6	3	3	1		
GALL BLADDER & BILE DUCTS	156					1			2	1	2	3	2	1	1	1	2	1		1			
PANCREAS	157			1	4	5		6	4	6	5	5	8	6	2	3	4	3	4	3	4		
PERITONEUM & RETROPERITONEAL TISS	158													1									
UNSPEC DIGESTIVE ORGANS	159			1					1	•	1									2			
RESPIRATORY SYSTEM	160-165	3	2	2	4	14	14	22	14	42	13	32	11	42	13	21	6	15	4	7	11		
NOSE,NASAL CAV, MIDDLE EAR & ACCES	160												1	1									
LARYNX	161					1				2				3	1			1					
TRACHEA, BRONCHUS & LUNG	162	3	2	2	4	13	13	22	14	40	13	32	10	38	12	21	6	14	4	7	11		
OTHER AND UNSPECIFIED ORGANS	163-165						1																
BONE, CONN TISSUE, SKIN BREAST	170-175	1	7		8	3	12	1	15	2	11	2	12	3	10	2	2	1	12	1	8		
BONE	170													2					1				
CONNECTIVE & OTHER SOFT TISSUE	171								2										1				
MELANOMA OF SKIN	172	1	1		1	2	1			2	1	1	2					1					
NEOPLASM OF SKIN	173					1		1				1		1		2			1	1	1		
BREAST	174-175		6		7		11		13		10		10		10		2		9		7		
GENITOURINARY ORGANS	179-189		4	1	6	1	9	5	8	11	12	11	13	13	8	19	9	13	3	10	6		
CERVIC UTERI	180						2		2		2		2		1		1						
PLACENTA	181				1																		
OTHER MALIG NEOPLASM OF UTERUS	179,182				1		3		2		2		4		4		2		1				
OVARY, FALLOP TUBE & BROAD LIGAM	183		4		4		4		2		6		3		3		4						
OTHER & UNSPEC FEMALE GENITAL ORG	184																		1		1		
PROSTATE	185					1		3		6		10		10		12		11		9			
TESTIS	186																						
OTHER & UNSPEC MALE GENITAL ORGAN	187							1															
BLADDER	188							1	1	3	1	1	1	3		5	1	2	1	1	5		
OTHER & UNSPEC URINARY ORGANS	189			1					1	2	1		3			2	1						
OTHER AND UNSPECIFIED SITES	190-199	4	3	5	1	5	1	12	3	11	2	3	6	4	7	4	5	2	4	7	1		
EYE	190																						
BRAIN	191	1		1	1			1		3	1	1	1		1								
OTHER PARTS OF NERVOUS SYSTEM	192																		1				
THYROID GLAND	193					1		1		1				1									
OTHER ENDOCRINE GLANDS	194																						
ILL-DEFINED SITES	195																						
SECONDARY & UNSPECIFIED MALIGNANT NEOPLASM OF LYMPH NODES	196					1		2					1			1	1		1	2			
SECONDARY MALIGNANT NEOPLASM OF RESPIRATORY & DIGESTIVE SYSTEMS	197																						
OTHER SECONDARY MALIG NEOPLASM	198																						
WITHOUT SPECIFICATION OF SITE	199	3	3	4		3	1	8	3	7	1	2	4	3	6	3	4	2	2	5	1		
LYMPHATIC & HEMATOPOIETIC TISS	200-208	4		4	4	3	1	6	3	6	4	17	5	8	5	10	2	7	5	4	1		
LYMPHOSARCOMA & RETIC-CELL SARCO	200			1	1			1	1	1	1	2							1				
HODGKINS DISEASE	201							1															
OTHER NEOPLASMS OF LYMPHOID TISS	202	1				1		3	1	2	1	4	1	1	2	5		4	3	1			
MULTIPLE MYELOMA	203	1		1		1		1		1	1	4	2	2	2		2	1	1	1			
LYMPHATIC LEUKEMIA	204				1				1	1		1		1		1					1		
MYELOID LEUKEMIA	205	2		2	2		1				1	4	2	2	1	3		1					
MONOCYTIC LEUKEMIA	206																						
OTHER AND UNSPECIFIED LEUKEMIA	207-208					1				1		2		2		1		1		2			
TOTAL MALIGNANT NEOPLASMS	140-208	17	17	23	30	44	46	76	59	121	63	133	79	103	62	94	43	71	48	47	51		

TABLE 34

HAWAII RESIDENT DEATHS OCCURRING OUTSIDE THE STATE BY RACE, AGE, AND SEX*
1982

AGE	TOTAL		CAUCASIAN		JAPANESE		CHINESE		BLACK		HAWAIIAN PART-HAWAIIAN		UNKNOWN	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
UNDER 1	4	2	3	2					1					
1 - 4	1		1											
5 - 14	1		1											
15 - 24	2	1	2	1										
25 - 34	1	2	1	1		1								
35 - 44	3		2		1									
45 - 54	5	1	3		1	1							1	
55 - 64	11	5	6	2	2	1	1	1			2	1		
65 - 74	8	5	7	1	1	1		2						1
75 - 84	9	3	3	3	4		1				1			
85 & OVER	1		1											
TOTAL	46	19	30	10	9	4	2	3	1		3	1	1	1

*INCLUDES DEATHS OCCURRING IN THE UNITED STATES, PUERTO RICO, GUAM, VIRGIN ISLANDS, DISTRICT OF COLUMBIA, AND CANADA

TABLE 35

TOTAL RECORDED DEATHS BY ISLAND OF OCCURRENCE, BY METHOD OF DISPOSITION AND AUTOPSY PERFORMED
STATE OF HAWAI 1982

ISLAND OF OCCURRENCE	METHOD OF DISPOSITION								AUTOPSY PERFORMED						PRESUMPTIVE DEATHS
									PRIV. PHY.		MED.EX./COR.PHY.		OTHER		
	TOTAL	BURIAL	CREMATION	REMOVAL	ENTOMB-MENT	EDUC. PURPOSE	OTHER	UNK.	TOTAL	YES	TOTAL	YES	TOTAL	YES	
TOTAL	5495	2324	2515	613	33			10	4463	510	1019	788	1		12
HAWAII	558	261	246	47	3			1	407	43	150	142			1
OAHU	4209	1739	1537	501	30			2	3543	436	661	458	1		4
KALAWAO COUNTY	1	1							1						
KAUAI	272	125	128	15				4	217	20	51	43			4
NIIHAU															
LANAI	6	4	1	1					3		3	3			
MAUI	416	173	199	42				2	275	10	139	131			2
MOLOKAI (EXCL OF KALAWAO)	32	21	4	7					17	1	15	11			
UNKNOWN	1							1							1

FIGURE 3
INFANT DEATHS IN HAWAII 1900-1981

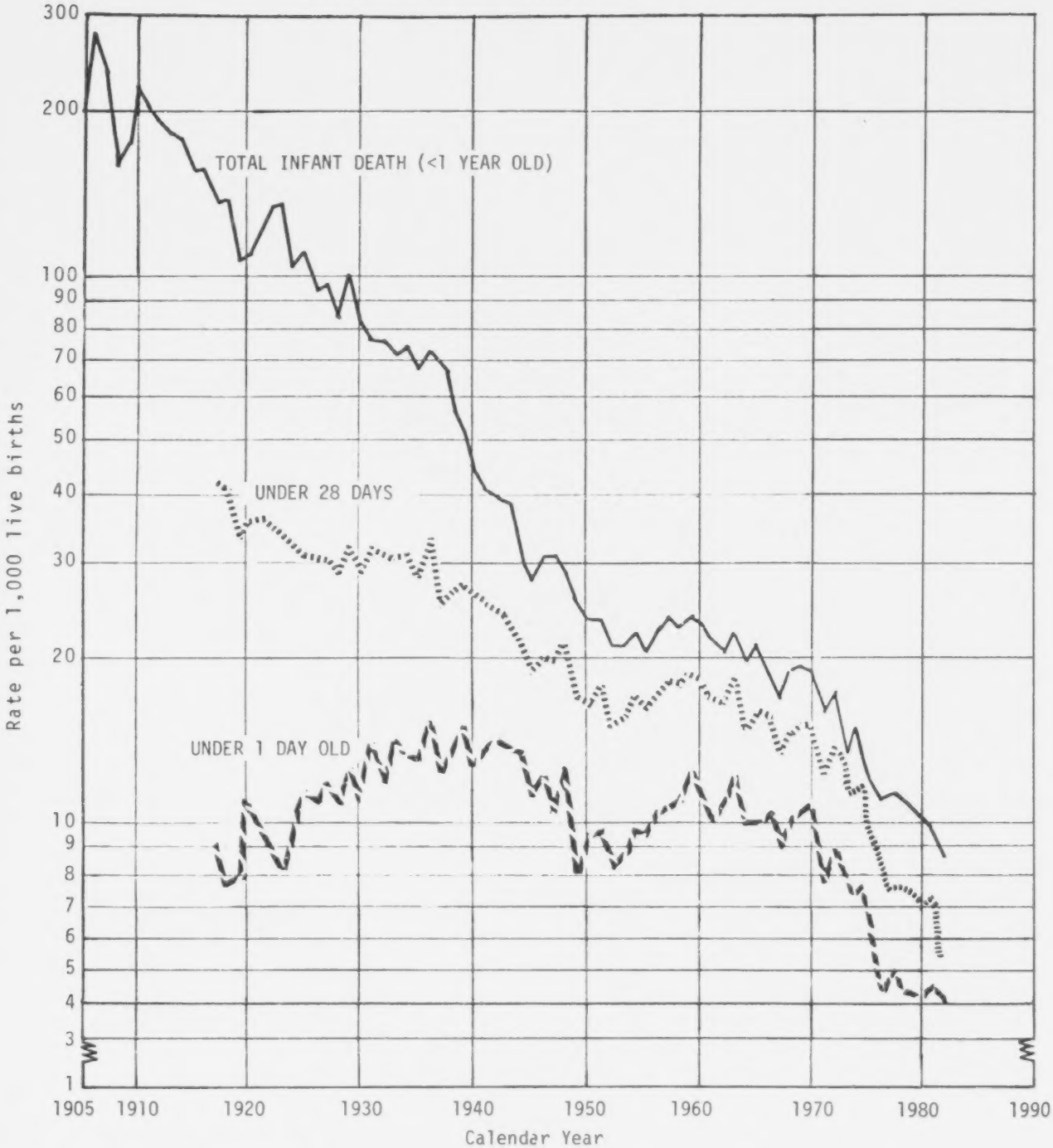


TABLE 36

INFANT DEATHS BY PLACE OF OCCURRENCE REALLOCATED TO USUAL RESIDENCE BY RACE OF CHILD
STATE OF HAWAII, 1982

GEOGRAPHIC AREA		TOTAL BY PLACE OF OCCURRENCE		TOTAL BY PLACE OF RESIDENCE		PERINATAL MORTALITY		RACE OF CHILD												
		NO.	RATE a/	NO.	RATE a/	NO.	RATE b/	CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	SAMOAN	NEGRO	PORTUGUESE	VIETNAMESE	OTHER RACES	UNKN
TOTAL RECORDED		166	8.9	166	8.9	289	15.3	36		44	6	32	18	2	3	8	10	1		6	
STATE OF HAWAII	NUMBER	166	8.9	158	8.5	279	14.8	34		44	6	30	18	2	3	7	10	1		3	
	RATE a/	8.9		8.5				8.1		7.7	8.5	10.5	7.0	10.4	9.7	13.7	14.1	4.7		5.2	
COUNTY OF HAWAII		9	4.6	14	7.1	27	13.6	2		5		3	3							1	
CITY OF HILO		6	4.9	7	11.2	12	19.0	1		1		1	3							1	
BALANCE OF CITY		3	4.2	7	5.2	15	11.1	1		4		2									
COUNTY OF HONOLULU		147	10.1	124	8.6	219	15.1	27		34	6	20	13	2	3	7	9	1		2	
CITY OF HONOLULU		129	9.8	43	7.3	82	13.8	10		12	5	3	4		2	1	4			2	
BALANCE OF CITY		18	11.9	81	9.5	137	15.9	17		22	1	17	9	2	1	6	5	1			
COUNTY OF KALAWAO																					
COUNTY OF KAUAI		7	8.7	9	10.8	12	14.4	1		2		5					1				
ISLAND OF KAUAI		7	8.7	9	10.9	12	14.4	1		2		5					1				
ISLAND OF NIIHAU																					
COUNTY OF MAUI		3	2.2	11	7.4	21	14.0	4		3		2	2								
ISLAND OF LANAI						1	38.5														
ISLAND OF MAUI		3	2.3	10	7.6	17	12.8	4		2		2	2								
ISLAND OF MOLOKAI (EXCL. KALAWAO)				1	7.1	3	21.1			1											
NON-RESIDENT				8	140.4	10	153.8	2				2				1				3	
UNKNOWN																					

a/ NUMBER OF INFANT DEATHS PER 1,000 LIVE BIRTHS
b/ NUMBER OF DEATHS PER 1,000 LIVE BIRTHS PLUS FETAL DEATHS OF 20 WEEKS OR MORE GESTATION EXCLUDING UNKNOWN GESTATIONS

TABLE 37

RESIDENT INFANT DEATHS BY AGE AND RACE OF MOTHER
STATE OF HAWAII, 1982

AGE OF MOTHER		ALL RACES		RACE OF MOTHER														
		NO.	RATE*	CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	SAMOAN	NEGRO	PORTUGUESE	VIETNAMESE	OTHER RACES	UNKN
ALL AGES	NUMBER	158	8.5	32	1	37	5	34	20	3	4	5	8			4	5
	RATE*	8.5		5.7	6.8	9.1	6.7	11.1	7.6	19.0	10.3	9.6	16.1			7.2	
UNDER 15																	
15 - 17		6	11.4	1		3		4									
18 - 19		20	13.3	3		9		5	2								1
20 - 24		57	9.5	18	1	12	1	10	1	2		5	5			2	
25 - 29		40	6.9	7		9	2	9	6	1	2		3			1	
30 - 34		19	5.2	3		3		4	9								
35 - 39		9	8.3			1	2	2	2		1					1	
40 - 44		3	21.1					2			1						
45 & OVER																	
UNKNOWN		4															4

* NUMBER OF INFANT DEATHS PER 1,000 LIVE BIRTHS

TABLE 38

RESIDENT INFANT DEATHS BY RACE OF MOTHER AND MONTH OF FIRST PRENATAL VISIT
STATE OF HAWAII, 1982

RACE OF MOTHER		NO.	RATE*	MONTH OF FIRST PRENATAL VISIT										
				1ST	2ND	3RD	4TH	5TH	6TH	7TH	8TH	9TH	NONE	UNKNO
ALL RACES	NUMBER	158	8.5	24	53	37	13	10	3	1	1	1	5	10
	RATE*	8.5		9.4	7.9	8.1	6.7	8.9	4.4	2.3	3.1	12.2	54.3	
CAUCASIAN		32	5.7	4	8	10	3	2	1		1		1	2
HAWAIIAN		1	6.8			1								
PART HAWAIIAN		37	9.1	9	9	8	4	4	1				2	
CHINESE		5	6.7	1	3									1
FILIPINO		34	11.1	2	16	10	2	2	1				1	
JAPANESE		20	7.6	5	8	3	1	2						1
PUERTO RICAN		3	19.0		3									
KOREAN		4	10.3	1	2	1								
SAMOAN		5	9.6		1	1	2					1		
NEGRO		8	16.1	1	3	1							1	2
PORTUGUESE														
VIETNAMESE														
OTHER RACES		4	7.2	1		1	1			1				
UNKNOWN		5				1								4

* NUMBER OF INFANT DEATHS PER 1,000 LIVE BIRTHS

TABLE 39

RESIDENT INFANT MORTALITY BY RACE OF CHILD AND AGE, LOW BIRTH WEIGHT INFANT DEATHS
STATE OF HAWAII, 1982

RACE OF CHILD	NUMBER OF INFANT DEATHS AGE AT DEATH (DAYS)					INFANT DEATH RATE[a]					LOW BIRTH WEIGHT INFANTS WHO DIED[b]	
	TOTAL	UNDER 1 DAY	1-6	7-27	28 DAYS TO 11 MOS	TOTAL	UNDER 1 DAY	UNDER 1 WEEK	UNDER 28 DAYS	28 DAYS TO 11 MOS	NO.	RATE[c]
ALL RACES	158	66	22	17	53	8.5	3.5	4.7	5.6	2.8	91	66.0
CAUCASIAN	34	13	4	4	13	8.1	3.1	4.1	5.0	3.1	16	60.2
HAWAIIAN												
PART HAWAIIAN	44	19	3	4	18	7.7	3.3	3.9	4.6	3.2	27	64.4
CHINESE	6	4		1	1	8.5	5.6	5.6	7.1	1.4	2	60.6
FILIPINO	30	13	2	4	11	10.5	4.5	5.2	6.6	3.8	18	61.9
JAPANESE	18	7	8		3	7.0	2.7	5.8	5.8	1.2	11	60.4
PUERTO RICAN	2	1	1			10.4	5.2	10.4	-	-	2	125.0
KOREAN	3	2	1			9.7	6.5	9.7	-	-	3	125.0
SAMOAN	7	2	1	2	2	13.7	3.9	5.9	9.8	3.9	3	214.3
NEGRO	10	5		1	4	14.1	7.1	-	8.5	5.7	7	106.1
PORTUGUESE	1		1			4.7	-	4.7	-	-	1	55.6
VIETNAMESE												
OTHER RACES	3		1	1	1	5.2	-	1.7	3.5	1.7	1	23.8
UNKNOWN												

a/ NUMBER OF INFANT DEATHS PER 1,000 LIVE BIRTHS
b/ INFANTS OF 2500 GRAMS OR LESS ARE CONSIDERED LOW BIRTH WEIGHT
c/ NUMBER OF DEATHS PER 1,000 LOW BIRTH WEIGHT LIVE BIRTHS

TABLE 40

RESIDENT INFANT MORTALITY BY SELECTED CAUSES BY BIRTH WEIGHT, SEX AND AGE, NEONATAL DEATHS
STATE OF HAWAII, 1982

CAUSE OF DEATH [a]	TOTAL			BIRTH WEIGHT			SEX			AGE AT DEATH				NEONATAL DEATH [c]	
	NO.	RATE [b]	PER CENT	2500 GMS UNDER	OVER 2500 GMS	UNK	MALE	FEMALE	UNK	UNDER 1 DAY	1-6 DAYS	7-27 DAYS	28 DAYS TO 11 MOS	NO.	RATE [b]
ALL CAUSES	158		100.0	91	60	7	98	59	1	66	22	17	53	105	5.6
INTESTINAL INFECTIVE DISEASES (001-009)	2		1.3	1	1			2					2		
OTHER INFECTIVE DISEASES (010-139)	2		1.3	1	1		1	1		1		1		2	0.1
INFECTIONS OF NEWBORN (771)	3		1.9	2	1		1	2		1	1	1		3	0.2
MENINGITIS (320-322)	2		1.3	1	1		2						2		
PNEUMONIA (480-486,7700)	1		.6		1		1						1		
CONGENITAL ANOMALIES OF CIRCULATORY SYST (745-747)	20		12.7	8	12		15	4	1	4	8	4	4	16	0.9
OTHER CONG ANOMAL (740-759)	19		12.0	11	6	2	11	8		7	3	4	5	14	0.7
MATERNAL CONDITIONS UNRELATED TO PREGNANCY (760)	1		.6	1			1			1				1	0.1
COMPLICATIONS OF PREGNANCY (761)	5		3.2	5			1	4		5				5	0.3
COMPLICATIONS OF PLACENTA CORD & MEMBRANE (762)	1		.6	1				1		1				1	0.1
OTHER COMPLICATIONS OF LABOR AND DELIVERY (763)															
BIRTH INJURY (767)	2		1.3	1	1		1	1			2			2	0.1
HEMOLYTIC DISEASE OF NEWBORN (773)															
RESPIRATORY DISTRESS SYNDROME (769)	10		6.3	9	1		5	5		6	4			10	0.5
ASPHYXIA & HYPOXIA (768)	6		3.8	4	2		3	3		5		1		6	0.3
IMMATURITY (765)	14		8.9	14			10	4		14				14	0.7
OTHER PERINATAL (760-779)	28		17.7	24	3	1	19	9		19	3	3	3	25	1.3
SUDDEN INFANT DEATH SYNDROME (798.0)	24		15.2	4	17	3	17	7					24		
ACCIDENTS (800-949)	3		1.9		3		2	1					3		0.3
OTHER EXTERNAL CONDITIONS (950-959)															
ALL OTHER CONDITIONS-RESIDUAL	15		9.5	4	10	1	8	7		2	1	3	9	6	

[a] 9TH ICD
[b] NUMBER OF INFANT DEATHS PER 1,000 LIVE BIRTHS
[c] DEATHS UNDER 28 DAYS OLD

TABLE 41

STANDARD FETAL DEATHS BY PLACE OF OCCURRENCE REALLOCATED TO USUAL RESIDENCE OF MOTHER AND GESTATION PERIOD
STATE OF HAWAII, 1982

GEOGRAPHIC AREA		TOTAL BY PLACE OF OCCURRENCE		TOTAL BY PLACE OF RESIDENCE			GESTATION PERIOD IN WEEKS										
		NO.	RATIO [a]	NO.	RATIO [a]	RATE [b]	UNDER 12	12	13	14	15	16-19	20-27	28-35	36-39	40 & OVER	UNKN
TOTAL RECORDED		1,678	89.6	1,678	89.6	82.2	1,039	172	50	51	31	99	92	50	27	30	37
STATE OF HAWAII	NUMBER	1,678	89.6	1,618	86.6	79.7	1,003	163	50	50	30	95	88	47	27	29	36
	PERCENT			100.0			62.0	10.1	3.1	3.1	1.9	5.9	5.4	2.9	1.7	1.8	2.2
COUNTY OF HAWAII		129	66.5	127	64.7	60.8	80	11	1	1	2	9	8	7	4	4	
CITY OF HILO		108	88.5	63	101.1	91.8	42	5	1			5	4	3	1	2	
BALANCE OF COUNTY		21	29.2	64	47.8	45.6	38	6		1	2	4	4	4	3	2	
COUNTY OF HONOLULU		1,345	92.1	1,291	89.7	82.3	792	136	45	43	27	75	74	39	16	19	25
CITY OF HONOLULU		1,214	92.7	508	86.2	79.4	311	54	17	23	10	27	30	10	9	11	6
BALANCE OF COUNTY		131	86.8	783	92.0	84.3	481	82	28	20	17	48	44	29	7	8	19
COUNTY OF KALAWAO																	
COUNTY OF KAUAI		75	92.7	72	86.7	79.8	45	9	1	3		7			3	2	2
ISLAND OF KAUAI		75	92.9	72	87.2	80.2	45	9	1	3		7			3	2	2
ISLAND OF NIIHAU																	
COUNTY OF MAUI		129	93.6	128	86.4	79.5	86	7	3	3	1	4	6	1	4	4	9
ISLAND OF LANAI				2	80.0	74.1	1						1				
ISLAND OF MAUI		124	95.9	116	81.2	80.9	79	7	2	3	1	3	4	1	3	4	9
ISLAND OF MOLOKAI		5	62.5	10	71.4	66.7	6		1			1	1		1		
NON-RESIDENT				58	1017.5	504.3	35	9		1	1	3	4	3		1	1
UNKNOWN				2	1000.0	500.0	1					1					

[a] NUMBER OF FETAL DEATHS PER 1,000 LIVE BIRTHS
[b] NUMBER OF FETAL DEATHS PER 1,000 DELIVERIES (LIVE BIRTHS AND STANDARD FETAL DEATHS)

TABLE 42

STANDARD FETAL DEATHS BY PLACE OF OCCURRENCE REALLOCATED TO USUAL RESIDENCE OF MOTHER BY RACE
STATE OF HAWAII, 1982

GEOGRAPHIC AREA		TOTAL BY PLACE OF OCCURRENCE NO.	RATIO a/	TOTAL BY PLACE OF RESIDENCE NO.	RATIO a/	RATE b/	RACE OF FETUS CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	SAMOAN	NE GRO	PORTUGESE	VIETNESE	OTHER	UNKN
TOTAL RECORDED		1678	89.6	1678	89.6	82.2	633	12	336	51	191	190	15	27	38	89	17	2	33	44
STATE OF HAWAII	NUMBER	1678	89.6	1618	86.6	79.7	589	12	336	50	189	187	15	27	34	89	17	2	33	30
	RATIO a/	89.6		86.6			140.4	200.0	59.2	70.6	66.0	72.2	77.7	87.4	66.4	125.9	80.2	27.4	57.3	
	RATE b/	82.2		79.7			123.1	166.7	55.9	66.0	61.9	67.4	72.1	80.4	62.3	111.8	74.2	26.7	54.2	
COUNTY OF HAWAII		129	66.5	127	64.7	60.8	29	1	52	1	17	17					3		6	1
CITY OF HILO		108	88.5	63	101.1	91.8	6	1	29	1	6	14					2		4	
BALANCE OF COUNTY		21	29.2	64	47.8	45.6	23		23		11	3					1		2	1
COUNTY OF HONOLULU		1345	92.1	1291	89.7	82.3	503	6	226	45	138	148	14	25	31	89	8	2	26	28
CITY OF HONOLULU		1214	92.7	508	86.2	79.4	169	5	80	31	54	75	7	18	16	25	1	2	16	9
BALANCE OF COUNTY		131	86.8	783	92.0	84.3	334	3	146	14	84	73	7	7	15	64	7		10	19
COUNTY OF KALAWAO																				
COUNTY OF KAUAI		75	92.7	72	86.7	79.8	16	2	19	2	16	10		1			2			4
ISLAND OF KAUAI		75	92.7	72	87.2	80.2	16	2	19	2	16	10		1			2			4
ISLAND OF NIIHAU																				
COUNTY OF MAUI		129	93.6	128	86.4	79.5	41	1	39	2	18	12	1	1	3		4		1	5
ISLAND OF LANAI				2	80.0	74.1					1	1								
ISLAND OF MAUI		124	95.9	116	81.2	80.9	40	1	32	2	16	11	1	1	2		4		1	5
ISLAND OF MOLOKAI		5	62.5	10	71.4	66.7	1		7		1				1					
NON-RESIDENT				58	1017.5	504.3	44			1	1	3			4					5
UNKNOWN				2	1000.0	500.0					1									1

a/ NUMBER OF FETAL DEATHS PER 1,000 LIVE BIRTHS
b/ NUMBER OF FETAL DEATHS PER 1,000 DELIVERIES (LIVE BIRTHS AND STANDARD FETAL DEATHS)

TABLE 43

STANDARD FETAL DEATHS BY CAUSE AND GESTATION PERIOD
STATE OF HAWAII, 1982

CAUSE	CODE	TOTAL NUMBER	TOTAL PERCENT	GESTATION PERIOD IN WEEKS: UNDER 12	12	13	14	15	16-19	20-27	28-35	36-39	40 & OVER	UNKN
ALL CAUSES	ALL	1,678	100.0	1,039	172	50	51	31	99	92	50	27	30	37
SPONTANEOUS ABORTION	7618	393	23.4	281	39	15	20	8	17	8			1	4
ALL OTHER ABORTIONS	7796	184	11.0	96	26	13	8	9	18	11	1			2
CONGENITAL ANOMALIES	740-759	13	.8						2	3	5	1	2	
CHRONIC CIRCULATORY, RESPIRATORY, AND GENITOURINARY DISEASES IN THE MOTHER	7600,7601,7603	7	.4		1					1	4		1	
MATERNAL CONDITIONS UNRELATED TO PREGNANCY	7602,7604-7609	10	.6	2				2	1	4	1			
COMPLICATIONS OF PREGNANCY AND CHILDBIRTH	7610-7617,7619	235	14.0	190	8	1			7	15	1	1	2	10
DIFFICULT LABOR WITH OR WITHOUT MENTION OF BIRTH INJURY	763	2	.1	1								1		
COMPLICATIONS OF PLACENTA, CORD AND MEMBRANES	762	85	5.1	16	4		2		11	15	11	14	12	
BIRTH INJURY WITHOUT MENTION OF CAUSE	767													
HEMOLYTIC DISEASE OF NEWBORN	773													
OTHER CONDITIONS OF FETUS	764-766,768-770	7	.4							2	4		1	
UNKNOWN	7799	732	43.6	452	94	20	21	12	43	30	21	8	10	21
ALL OTHER CAUSES	RESIDUAL	10	.6	1		1				3	2	2	1	

TABLE 44

STANDARD FETAL DEATHS BY AGE OF MOTHER AND GESTATION PERIOD
STATE OF HAWAII, 1982

AGE OF MOTHER IN YEARS	TOTAL			GESTATION PERIOD IN WEEKS: NUMBER											GESTATION PERIOD IN WEEKS: PERCENT						
	NO.	RATIO*	PER-CENT	<12	12	13	14	15	16 TO 19	20 TO 27	28 TO 35	36 TO 39	40 & OVER	UNKN	UNDER 12	UNDER 20	UNDER 28	UNDER 36	36 TO 39	40 & OVER	UNKN
ALL AGES	1,078	89.9	100.0	1,039	172	50	51	31	99	92	50	27	30	37	61.9	85.9	91.4	94.4	1.6	1.8	2.2
UNDER 15	1	45.5	.1				1									100.0	100.0	100.0			
15 - 17	46	87.5	2.7	28	7		1		2	3	1	1	1	2	60.9	82.6	89.1	91.3	2.2	2.2	4.3
18 - 19	112	75.5	6.7	61	11	5	5	3	9	8	4	2	1	3	54.5	83.9	91.1	94.6	1.8	.9	2.7
20 - 24	493	82.3	29.4	309	53	10	12	11	32	26	26	3	6	5	62.7	86.6	91.9	97.2	.6	1.2	1.0
25 - 29	499	86.6	29.7	323	52	20	15	7	26	16	10	9	8	13	64.7	88.8	92.0	94.0	1.8	1.6	2.6
30 - 34	327	89.5	19.5	206	26	9	11	8	15	22	5	6	9	10	63.0	84.1	90.8	92.4	1.8	2.8	3.1
35 - 39	139	127.6	8.3	77	16	5	4	2	11	12	3	4	3	2	55.4	82.7	91.4	93.5	2.9	2.2	1.4
40 - 44	50	352.1	3.0	31	5		2		3	3	1	2	2	1	62.0	82.0	88.0	90.0	4.0	4.0	2.0
45 - 49	6	857.1	.4	3	1	1				1					50.0	83.3	100.0	100.0			
50 & OVER																					
UNKNOWN	5		.3	1	1				1	1				1	20.0	60.0	80.0	80.0			20.0

* NUMBER OF FETAL DEATHS PER 1,000 LIVE BIRTHS

TABLE 45

STANDARD FETAL DEATHS BY RACE OF MOTHER AND AGE OF MOTHER
STATE OF HAWAII, 1982

ALL RACES				RACE OF MOTHER														
		NO.	PER CENT	CAUC SIAN	HAWN	PART HAWN	CHI NESE	FILI PINO	JAPA NESE	PUER RCAN	KO REAN	SAMO AN	NE GRO	PORT GESE	VIET NESE	OT HER	UNKN
	NUMBER	1678	100.0	638	22	279	53	210	199	18	38	37	68	23	4	38	51
	PERCENT	100.0		38.0	1.3	16.6	3.2	12.5	11.9	1.1	2.3	2.2	4.1	1.4	.2	2.3	3.0
UNDER 15		1	.1			1											
15 - 17		46	2.7	13	2	16		5	3		1	2	1	2			1
18 - 19		112	6.7	39	2	22		19	7	2	2	2	5	2		2	8
20 - 24		493	29.4	202	6	107	7	54	32	8	9	10	33	9		9	7
25 - 29		499	29.7	198	8	80	14	66	58	3	12	7	20	6	1	13	13
30 - 34		327	19.5	125		27	22	36	65	5	9	7	8	2	2	9	10
35 - 39		139	8.3	36	3	20	7	16	28		5	8	1	1	1	5	8
40 - 44		50	3.0	21		6	2	13	5					1			2
45 - 49		6	.4	3	1		1	1									
50 & OVER																	
UNKNOWN		5	.3	1					1			1					2

TABLE 46

ELECTIVE ABORTIONS BY RACE OF MOTHER AND AGE OF MOTHER
STATE OF HAWAII, 1982

MOTHERS AGE IN YEARS		NO.	PERCENT	ABORTIONS PER 1000 LIVE BIRTHS	RACE OF MOTHER: CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	NEGRO	SAMOAN	VIETNAMESE	PORTUGESE	OTHER RACES	UNKNOWN
	NUMBER	6,224		333.3	2011	100	944	250	950	1022	44	246	102	116	39	34	192	174
	PERCENT		100.0		32.3	1.6	15.2	4.0	15.3	16.4	.7	4.0	1.6	1.9	.6	.5	3.1	2.8
UNDER 15		38	.6	1727.3	9		6	2	6	9	1		1	2			1	1
15 - 17		543	8.7	1032.3	128	21	95	20	104	112	5	11	4	10	1	3	10	19
18 - 19		852	13.7	574.1	235	19	170	30	143	140	6	15	11	18	3	9	31	22
20 - 24		2,129	34.1	354.6	695	36	361	82	306	323	20	64	46	39	9	13	65	62
25 - 29		1,468	23.6	254.9	521	14	197	56	210	220	9	82	27	30	9	5	50	38
30 - 34		734	11.8	200.9	266	8	74	34	95	121	1	47	10	13	13	3	28	21
35 - 39		344	5.5	315.9	131	1	32	17	51	71	1	19	3	3	1	1	4	9
40 - 44		108	1.7	760.6	21	1	7	9	33	24	1	6		1	1		3	1
45 - 49		6	.1	1142.9			1		2	2					2			1
50 & OVER		2					1					1						
UNKNOWN		2			1							1						

TABLE 47

ELECTIVE ABORTIONS BY AGE OF MOTHER AND LENGTH OF GESTATION PERIOD
STATE OF HAWAII, 1982

AGE OF MOTHER	TOTAL	GESTATION PERIOD IN WEEKS: UNDER 6	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21 & OVER	UNKN
ALL AGES	6,224	133	704	871	1,584	743	875	324	354	139	147	50	79	46	60	41	26	37	8
UNDER 15	38			2	11	5	4	2	2	4	2	2	2					2	
15 - 17	543	7	47	68	114	83	64	38	28	11	27	13	12	6	8	7	4	5	1
18 - 19	852	7	91	105	192	102	120	53	62	27	31	7	15	6	10	9	6	9	
20 - 24	2,129	52	248	276	537	265	296	104	148	49	36	18	29	18	23	11	7	7	1
25 - 29	1,468	33	170	220	397	171	225	76	57	26	22	6	14	13	13	7	6	7	5
30 - 34	734	23	98	129	205	73	91	31	34	11	17	2	4	1	4	4	3	4	
35 - 39	344	9	45	58	94	31	52	14	17	5	10	1	2	1	2	1		2	
40 - 44	108	5	3	9	31	13	21	6	6	6	2	1	1			2		1	1
45 - 49	6		2	4			1							1					
50 & OVER	2				1		1												
UNKNOWN	2				2														

TABLE 48

ELECTIVE ABORTIONS BY LEGITIMACY AND RACE OF MOTHER
STATE OF HAWAII, 1982

LEGITIMACY STATUS	TOTAL	RACE OF MOTHER													
		CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	NEGRO	SAMOAN	PORTUGUESE	VIETNAMESE	OTHER RACES	UNKNOWN
TOTAL	6,224	2,011	100	944	250	950	1,022	44	246	102	116	39	34	192	174
LEGITIMATE	1,536	402	11	229	83	326	230	9	83	25	30	9	8	49	42
ILLEGITIMATE	4,503	1,530	88	700	157	613	760	35	156	70	85	28	23	131	127
UNKNOWN	185	79	1	15	10	11	32		7	7	1	2	3	12	5

TABLE 49

ELECTIVE ABORTIONS BY LEGITIMACY STATUS AND AGE OF MOTHER
STATE OF HAWAII, 1982

LEGITIMACY STATUS	TOTAL	AGE OF MOTHER IN YEARS										
		UNDER 15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45-49	50 & OVER	UNKNOWN
TOTAL	6,224	38	543	852	2,125	1,468	734	344	108	8	2	2
LEGITIMATE	1,536	1	24	72	423	475	289	172	70	7	1	2
ILLEGITIMATE	4,503	36	509	759	1,631	947	416	166	37	1	1	
UNKNOWN	185	1	10	21	71	46	29	6	1			

TABLE 50

ELECTIVE ABORTIONS BY TYPE OF PROCEDURE AND GESTATION PERIOD
STATE OF HAWAII, 1982

TYPE OF PROCEDURE	TOTAL	GESTATION PERIOD IN WEEKS														
		UNDER 6	6	7	8	9	10	11	12	13	14	15	16	17-19	20 & OVER	UNKN
TOTAL	6,224	136	704	871	1,584	743	875	324	354	139	147	50	79	147	63	8
SUCTION CURETTAGE	5,761	133	652	775	1,524	735	873	322	348	132	135	32	36	46	11	7
SHARP D & C	7		1	2	1			1	1					1		
AMNIOTIC FLUID EXCHANGE	4												2	2		
HYSTEROTOMY																
HYSTERECTOMY																
PROSTAGLANDIN	123									2	7	10	18	47	38	1
OTHER	324	3	50	94	59	7	1		5	5	5	8	23	50	14	
NOT STATED	4		1			1	1	1								
UNKNOWN	1													1		

TABLE 51
ELECTIVE ABORTIONS BY COUNTY OF RESIDENCE AND COUNTY OF OCCURRENCE
STATE OF HAWAII, 1982

COUNTY OF RESIDENCE		NO.	PER-CENT	ABORTIONS PER 1,000 LIVE BIRTHS	COUNTY OF OCCURRENCE																
					TOTAL	COUNTY OF HAWAII			COUNTY OF HONOLULU			KALAWAO CNTY	COUNTY OF KAUAI			COUNTY OF MAUI				NON RES	UNK
						TOT	HILO CITY	BAL	TOT	HON CITY	BAL		TOT	KAUAI ISL	NIIHAU ISL	TOT	MAUI ISL	LANAI ISL	MOLOKAI ISL		
TOTAL RECORDED	NUMBER	6224	100.0	332.2	6224	381	298	83	5252	4185	1067		213	213		378	368		10		
	PERCENT	100.0			100.0	6.1	4.8	1.3	84.4	67.2	17.1		3.4	3.4		6.1	5.9		.2		
STATE OF HAWAII		6175	99.2	330.7	6175	380	297	83	5208	4142	1066		212	212		375	365		10		
COUNTY OF HAWAII		401	6.4	204.3	401	380	297	83	21	21											
CITY OF HILO		210	3.4	337.1	210	202	177	25	8	8											
BALANCE OF COUNTY		191	3.1	142.5	191	178	120	58	13	13											
COUNTY OF HONOLULU		5046	81.1	350.4	5046				5044	3980	1064		1	1		1	1				
CITY OF HONOLULU		2784	44.7	472.4	2784				2783	2758	25		1	1							
BALANCE OF COUNTY		2262	36.3	265.9	2262				2261	1222	1039					1	1				
COUNTY OF KALAWAO																					
COUNTY OF KAUAI		243	3.9	292.8	243				32	30	2		211	211							
ISLAND OF KAUAI		243	3.9	294.2	243				32	30	2		211	211							
ISLAND OF NIIHAU																					
COUNTY OF MAUI		485	7.8	327.3	485				111	111						374	364		10		
ISLAND OF MAUI		456	7.3	346.2	456				92	92						364	364				
ISLAND OF LANAI		4	.1	800.0	4				4	4											
ISLAND OF MOLOKAI		25	.4	178.6	25				15	15						10			10		
NON-RESIDENT		47	.8	824.6	47	1	1		42	41	1		1	1		3	3				
UNKNOWN		2		1000.0	2				2	2											

TABLE 52

MARRIAGES BY PLACE AND MONTH OF OCCURRENCE
STATE OF HAWAII, 1982

PLACE OF OCCURR	TOTAL	PERCENT	RATE*	MONTH OF OCCURRENCE JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	UNK
TOTAL	13,483	100.0	13.6	962	984	955	1,039	1,276	1,242	1,321	1,262	1,045	1,082	1,081	1,234	
PERCENT				7.1	7.3	7.1	7.7	9.5	9.2	9.8	9.4	7.8	8.0	8.0	9.2	
STATE OF HAWAII	13,483	100.0	13.6	962	984	955	1,039	1,276	1,242	1,321	1,262	1,045	1,082	1,081	1,234	
COUNTY OF HAWAII	1,151	8.5	11.7	90	91	82	97	89	102	120	103	78	87	98	114	
CITY OF HILO	433	3.2	11.5	24	29	34	31	32	52	54	44	32	29	32	40	
BAL. OF COUNTY	718	5.3	11.9	66	62	48	66	57	50	66	59	46	58	66	74	
COUNTY OF HONOLUL	9,510	70.5	12.3	682	689	665	722	885	888	951	901	736	734	770	887	
CITY OF HONO.	6,855	50.8	18.5	488	517	501	534	646	621	654	659	548	507	561	619	
BAL. OF COUNTY	2,655	19.7	6.6	194	172	164	188	239	267	297	242	188	227	209	268	
COUNTY OF KALAWAO	1		6.3											1		
COUNTY OF KAUAI	1,265	9.4	31.0	84	98	90	116	150	114	109	115	100	139	88	62	
ISL OF KAUAI	1,264	9.4	31.1	84	98	90	116	150	114	109	115	100	139	88	61	
ISL OF NIIHAU	1														1	
COUNTY OF MAUI	1,556	11.5	19.5	106	106	118	104	152	138	141	143	131	122	124	171	
ISL OF LANAI	11	.1	5.1	2	1		2	1				2	2		1	
ISL OF MAUI	1,485	11.0	20.8	100	102	114	99	144	131	135	139	124	117	119	161	
ISL OF MOLOKAI	60	.4	9.6	4	3	4	3	7	7	6	4	5	3	5	9	

*RATE PER 1,000 POPULATION

TABLE 53

MARRIAGES BY AGE OF GROOM AND AGE OF BRIDE
STATE OF HAWAII, 1982

AGE OF GROOM	TOT	PERCENT	AGE OF BRIDE 15-17	18-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75 & >	UNK
ALL AGES	13,483	100.0	224	1250	4115	3528	2010	1023	528	299	199	151	79	49	22	6	
PERCENT			1.7	9.3	30.5	26.2	14.9	7.6	3.9	2.2	1.5	1.1	.6	.4	.2		
15 - 17	27	.2	15	9	1	2											
18 - 19	526	3.9	84	251	151	30	6	3	3								
20 - 24	3,621	26.9	99	751	2043	529	136	40	15	6	2						
25 - 29	3,392	25.2	20	185	1280	1402	399	94	25	6		1					
30 - 34	2,364	17.5	6	49	412	963	681	191	46	12	1	2		1			
35 - 39	1,357	10.1		13	149	375	429	294	72	17	7	1					
40 - 44	704	5.2		9	44	121	199	165	116	36	10	2	1	1			
45 - 49	477	3.5		3	15	63	88	115	107	63	20	3					
50 - 54	354	2.6			7	22	42	64	72	72	49	21	4	1			
55 - 59	288	2.1			7	12	17	31	49	51	58	43	14	4	2		
60 - 64	162	1.2			1	6	7	18	13	19	28	37	23	8	1	1	
65 - 69	102	.8			2	1	3	5	3	10	16	29	15	13	4	1	
70 - 74	70	.5			2	2	2	3	5	5	7	7	15	11	9	2	
75 & >	37	.3			1		1		2	2	1	5	7	10	6	2	
UNKNOWN																	

MEDIAN AGE OF GROOM WITH KNOWN AGES: 28.8

MEDIAN AGE OF BRIDE WITH KNOWN AGES: 26.6

TABLE 54

MARRIAGES BY PREVIOUS MARITAL STATUS OF GROOM AND OF BRIDE BY AGE
STATE OF HAWAII, 1982

AGE IN YEARS		GROOM							BRIDE						
		TOTAL	PERCENT	NEVER MARRIED	WIDOWED	DIVORCED	ANNUL-MENT	UNKNOWN	TOTAL	PERCENT	NEVER MARRIED	WIDOWED	DIVORCED	ANNUL-MENT	UNKNOWN
TOTAL	NUMBER	13,483	100.0	8,534	383	4,527	38	1	13,483	100.0	8,608	368	4,479	27	1
	PERCENT	100.0	...	63.3	2.8	33.6	.3		100.0	...	63.8	2.7	33.2	.2	
15 - 17		27	.2	27					224	1.7	224				
18 - 19		528	3.9	524		3	1		1,250	9.3	1,227		22	1	
20 - 24		3,621	26.9	3,433	3	178	7		4,115	30.5	3,707	8	394	5	1
25 - 29		3,392	25.2	2,764	5	616	7		3,528	26.2	2,377	21	1,[illegible]	7	
30 - 34		2,364	17.5	1,225	8	1,119	12		2,010	14.9	770	33	1,202	5	
35 - 39		1,357	10.1	359	18	977	3		1,023	7.6	203	32	782	6	
40 - 44		704	5.2	91	31	579	2	1	528	3.9	58	34	434	2	
45 - 49		477	3.5	47	20	408	2		299	2.2	18	43	237	1	
50 - 54		354	2.6	23	43	287	1		199	1.5	11	40	148		
55 - 59		288	2.1	15	66	205	2		151	1.1	6	48	97		
60 - 64		162	1.2	8	66	88			79	.6	3	56	20		
65 - 69		102	.8	6	57	39			49	.4	2	33	14		
70 - 74		70	.5	8	40	21	1		22	.2	2	15	5		
75 & OVER		37	.3	4	26	7			6			5	1		
UNKNOWN															

TABLE 55

MARRIAGES BY OCCUPATION OF GROOM AND OF BRIDE
STATE OF HAWAII, 1982

CODE OCC OF GROOM	TOTAL	PERCENT	OCCUPATION CODE OF BRIDE											
			0	1	2	3	4	5	6	7	8	9	10	UNKNOWN
TOTAL	13,483	100.0	3,845	1,951	1,005	3,212	850	133	176	1,475	15	60	757	4
PERCENT			28.5	14.5	7.5	23.8	6.3	1.0	1.3	10.9	.1	.4	5.6	
0 NO OCCUPATION	958	7.1	526	78	40	136	51	9	8	84		1	25	
1 PRO,TECH &KIND	2,154	16.0	323	837	198	465	121	18	15	164	1	2	9	1
2 FARM,MAN &OFFI	2,024	15.0	412	298	359	565	154	17	21	190	2	3	2	1
3 CLER & KINDRED	575	4.3	102	61	29	274	34	5	7	60			3	
4 SALES WORKERS	789	5.9	146	149	70	209	147	3	1	61		1	2	
5 CRAFT,FOREMEN	1,740	12.9	427	207	114	551	100	43	25	243	2	10	17	1
6 OPERATIVES	865	6.4	295	44	42	244	54	13	37	120	2	6	8	
7 PRI HOUSEHOLD	1,157	8.6	319	117	61	283	72	6	21	259	1	5	13	
8 FARM LABORERS	49	.4	19		1	6	2		4	8	6	2	1	
9 LABOR EX FARM	543	4.0	197	33	21	130	30	8	12	80	1	25	6	
10 ARMED FORCES	2,622	19.4	1,076	126	70	347	85	10	25	206		5	671	1
UNKNOWN	7	.1	3	1		2		1						

TABLE 56

MARRIAGES BY PREVIOUS MARITAL STATUS OF GROOM AND OF BRIDE
STATE OF HAWAII, 1982

MARR. STAT. GROOM	TOTAL	PERCENT	MARITAL STATUS OF BRIDE				
			NEVER MARRIED	WIDOWED	DIVORCED	ANNULMENT	UNKNOWN
TOTAL	13,483	100.0	8,608	368	4,479	27	1
PERCENT			63.8	2.7	33.2	.2	
NEVER MARRIED	8,534	63.3	6,828	65	1,629	11	1
WIDOWED	383	2.8	61	130	189	3	
DIVORCED	4,527	33.6	1,697	171	2,646	13	
ANNULMENT	38	.3	21	2	15		
UNKNOWN	1		1				

TABLE 57

MARRIAGES BY NUMBER OF TIMES GROOM AND BRIDE PREVIOUSLY MARRIED
STATE OF HAWAII, 1982

NO. GROOM MARRIED	TOTAL	PERCENT	TIMES PREVIOUSLY MARRIED - BRIDE						
			NONE	1	2	3	4	5 OR >	UNKNOWN
TOTAL	13,483	100.0	8,608	3,954	772	114	27	8	
PERCENT			63.8	29.3	5.7	.8	.2	.1	
NONE	8,534	63.3	6,828	1,495	182	22	4	3	
1	3,938	29.2	1,529	1,976	365	52	12	4	
2	853	6.3	221	410	190	24	7	1	
3	125	.9	25	64	22	14			
4	24	.2	3	6	9	2	4		
5 & >	9	.1	2	3	4				
UNKNOWN									

TABLE 58

MARRIAGES BY RACE AND AGE OF GROOM
STATE OF HAWAII, 1982

RACE OF GROOM	TOT	PERCENT	AGE OF GROOM													
			15-17	18-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75 & >	UNK
ALL RACES	13,483	100.0	27	528	3621	3392	2364	1357	704	477	354	288	162	102	70	37	
CAUCASIAN	7,247	53.7	5	200	1644	1570	1388	934	473	327	254	205	117	70	38	22	
HAWAIIAN	91	.7	1	11	23	18	9	10	7	3	4	2	1	1	1		
PART HAWN	1,439	10.7	9	142	508	351	186	96	56	41	18	13	11	5	2	1	
CHINESE	418	3.1	1	9	75	160	95	32	8	9	8	8	6	5	1	1	
FILIPINO	1,179	8.7	6	75	410	316	160	61	41	23	17	22	8	9	22	9	
JAPANESE	1,591	11.8	1	17	301	635	352	123	59	35	27	22	12	5	2		
PUERTO RCN	128	.9	1	11	58	21	10	8	5	7	4	2	1				
KOREAN	173	1.3		1	28	55	32	21	9	8	6	4	4	3		2	
SAMOAN	196	1.5	1	14	90	45	24	10	6	1	2			1		2	
NEGRO	614	4.6	1	31	343	124	50	33	15	6	4	2	1	2	2		
PORTUGUESE	136	1.0		8	45	29	12	10	12	7	6	4		1	2		
VIETNAMESE	18	.1		2	2	4	7	2	1								
OTHER	253	1.9	1	7	94	64	39	17	12	10	4	4	1				
UNKNOWN																	

TABLE 59

MARRIAGES BY RACE AND AGE OF BRIDE
STATE OF HAWAII, 1982

RACE OF BRIDE	TOT	PERCENT	AGE OF BRIDE 15-17	18-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75 &	UNK
ALL RACES	13,483	100.0	224	1250	4115	3528	2010	1023	528	299	199	151	79	49	22	6	
CAUCASIAN	6,614	49.1	74	477	1679	1715	1136	648	350	188	132	104	52	39	17	3	
HAWAIIAN	65	.5	4	7	19	14	7	4	3	5	1			1			
PART HAWN	1,629	12.1	51	303	646	320	138	68	46	27	10	11	5	3	1		
CHINESE	478	3.5	3	19	138	163	88	30	11	9	7	5	4	1			
FILIPINO	1,471	10.9	52	191	565	319	163	84	44	19	16	10	4	2	1	1	
JAPANESE	1,794	13.3	12	90	546	663	297	107	26	18	16	9	7		1	2	
PUERTO RCN	93	.7	2	8	36	21	10	4	4	2	6						
KOREAN	393	2.9	3	18	76	128	73	38	19	20	5	8	4	1			
SAMOAN	191	1.4	13	34	91	29	11	6	2	1	1		1		2		
NEGRO	324	2.4	2	46	160	66	29	7	9	4		1					
PORTUGUESE	113	.8	2	15	50	18	10	7	2	2	4	2		1			
VIETNAMESE	47	.3	2	4	8	12	13	5	3								
OTHER	271	2.0	4	38	101	60	35	15	9	4	1	1	2	1			
UNKNOWN																	

TABLE 60

MARRIAGES BY RESIDENCE OF GROOM AND OF BRIDE
STATE OF HAWAII, 1982

RESID OF GROOM	TOTAL RECORDED	PER CENT	RESIDENCE OF BRIDE TOTAL	COUNTY OF HAWAII TOTAL	HILO	BAL	COUNTY OF HONOLULU TOTAL	HONO	BAL	KALAWAO	COUNTY OF KAUAI TOTAL	KAUAI	NIIHAU	COUNTY OF MAUI TOTAL	LANAI	MAUI	MOLOKAI	NON RES	UNK
TOTAL	13,483	100.0	9,760	879	297	582	7,749	3,757	3,992		352	352		780	9	724	47	3,722	1
STATE OF HAWAII	9,732	72.2	9,439	861	292	569	7,472	3,620	3,852		343	343		763	9	708	46	292	1
COUNTY OF HAWAII	875	6.5	865	835	283	552	24	13	11					6		6		10	
CITY OF HILO	278	2.1	275	266	240	26	8	5	3					1		1		3	
BAL. OF COUNTY	597	4.4	590	569	43	526	16	8	8					5		5		7	
COUNTY OF HONOLUL	7,727	57.3	7,459	24	8	16	7,411	3,583	3,828		7	7		17	1	13	3	268	
CITY OF HONO.	3,527	26.2	3,468	14	6	8	3,447	3,092	355		3	3		4	1	3		59	
BAL. OF COUNTY	4,200	31.2	3,991	10	2	8	3,964	491	3,473		4	4		13		10	3	209	
COUNTY OF KALAWAO																			
COUNTY OF KAUAI	351	2.6	346	1		1	8	5	3		336	336		1		1		5	
ISL OF KAUAI	351	2.6	346	1		1	8	5	3		336	336		1		1		5	
ISL OF NIIHAU																			
COUNTY OF MAUI	779	5.8	769	1	1		29	19	10					739	8	688	43	9	1
ISL OF LANAI	11	.1	11				3	2	1					8	8				
ISL OF MAUI	720	5.3	710	1	1		20	16	4					689		687	2	9	1
ISL OF MOLOKAI	48	.4	48				6	1	5					42		1	41		
NONRESIDENTS	3,751	27.8	321	18	5	13	277	137	140		9	9		17		16	1	3,430	
UNKNOWN																			

TABLE 61

MARRIAGES BY RACE OF GROOM AND RACE OF BRIDE
STATE OF HAWAII, 1982

RACE OF GROOM	TOTAL	PERCENT	RACE OF BRIDE														OUT MARRIAGES	
			CAUC ASIAN	HAWN	PART HAWN	CHI NESE	FILI PINO	JAPA NESE	PUERT RICAN	KO REAN	SAMO AN	NEGRO	PORTU GUESE	VIET NESE	OTHER RACES	UNKN	TOTAL	RATE/1000
ALL RACES	13,483	100.0	6614	65	1625	478	1471	1794	93	393	191	324	113	47	271		4807	336
PERCENT			49.1	.5	12.1	3.5	10.9	13.3	.7	2.9	1.4	2.4	.8	.3	2.0		35.7	2.6
CAUCASIAN	7,247	53.7	5602	15	370	142	383	393	19	123	25	32	13	18	112		1645	226
HAWAIIAN	91	.7	27	11	28		6	10		2	2		1		4		80	879
PART HAWN	1,439	10.7	277	16	648	35	167	172	13	21	18		39	3	30		791	549
CHINESE	418	3.1	60		38	164	23	95		24	3		2	2	7		254	607
FILIPINO	1,179	8.7	173	4	164	16	678	97	4	12	4	1	15	2	9		501	424
JAPANESE	1,591	11.8	194	5	142	92	85	947	4	99		1	11	3	8		644	404
PUERTO RICN	120	.9	20	2	35		20	8	29	2	3	3	5		1		99	773
KOREAN	173	1.3	21		12	6	5	28		95	1		2	1	2		78	450
SAMOAN	196	1.5	17	3	45	2	5	4	3	1	107		2		7		89	454
NEGRO	614	4.6	123	4	66	9	55	15	12	6	18	286	2	2	16		328	534
PORTUGUESE	136	1.0	18	4	40	5	25	14	5	4		1	20				116	852
VIETNAMESE	18	.1	1			2					1			14			4	222
OTHER	253	1.9	81	1	41	5	19	11	4	4	9		1	2	75		178	703
UNKNOWN																		
OUT MARRIAGES	4,807	35.7	1012	54	581	314	793	847	64	298	84	38	93	33	196			
RATE/1000	356		153	830	602	656	539	472	688	758	439	117	823	702	723			

TABLE 62

DIVORCES AND ANNULMENTS BY PLACE AND MONTH OF OCCURRENCE
STATE OF HAWAII, 1982

COUNTY OF OCCURRENCE		YEAR		MONTH OF OCCURRENCE											
		NUMBER	RATE*	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
STATE OF HAWAII	NUMBER	4233	4.3	310	331	380	322	411	418	395	271	272	370	311	442
	PERCENT	100.0		7.3	7.8	9.0	7.6	9.7	9.9	9.3	6.4	6.4	8.7	7.3	10.4
HAWAII		457	4.7	27	29	46	39	33	55	45	33	45	44	30	31
HONOLULU		3,258	4.2	256	255	298	238	326	317	286	195	178	294	245	370
KAUAI		176	4.3	15	11	9	17	23	13	12	15	25	13	8	15
MAUI		342	4.3	12	36	27	28	29	33	52	28	24	19	28	26
UNKNOWN															

* RATE PER 1,000 RESIDENT POPULATION

TABLE 63

DIVORCES AND ANNULMENTS BY NUMBER OF CHILDREN REPORTED UNDER 18 YEARS
STATE OF HAWAII, 1982

TYPE OF DECREE		TOTAL		NUMBER OF CHILDREN REPORTED UNDER 18 YEARS OF AGE											
		NUMBER	PERCENT	NONE	1	2	3	4	5	6	7	8	9	> 9	UNKNOWN
TOTAL	NUMBER	4,233	100.0	1947	983	872	302	82	22	7	2	1			15
	PERCENT	100.0		46.0	23.2	20.6	7.1	1.9	.5	.2					.4
DIVORCES		4,219	99.7	1939	979	871	302	81	22	7	2	1			15
ANNULMENTS		11	.3	8	3										
UNKNOWN		3	.1	-	1	1		1							

TABLE 64

DIVORCES AND ANNULMENTS BY RACE AND AGE OF HUSBAND
STATE OF HAWAII, 1982

RACE OF HUSBAND		ALL AGES		AGE OF HUSBAND														
		NUMBER	PERCENT	UNDER 18	18-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75 & OVER	UN-KNOWN
ALL RACES	NUMBER	4,233	100.0	1	10	461	887	985	722	443	255	169	106	84	37	23	13	37
	PERCENT	100.0			.2	10.9	21.0	23.3	17.1	10.5	6.0	4.0	2.5	2.0	.9	.5	.3	.9
CAUCASIAN		2,042	48.2		7	249	401	470	369	210	116	86	49	35	18	9	4	19
HAWAIIAN		55	1.3		1	9	9	10	6	7	5	2	4	2				
PART HAWAIIAN		495	11.7		1	61	108	121	87	62	23	15	7	6	1		1	2
CHINESE		126	3.0			4	20	35	21	11	7	8	7	11	1			1
FILIPINO		487	11.5		1	50	102	122	62	51	24	18	16	10	10	9	7	5
JAPANESE		518	12.2			26	58	131	107	55	43	21	16	15	2	3		1
PUERTO RICAN		48	1.1			6	19	6	5	3	4	3			2			
KOREAN		113	2.7	1		4	20	21	23	18	11	3	4	2	2	1	1	2
SAMOAN		44	1.0			5	16	7	8	2	2	2	1					1
NEGRO		156	3.7			38	50	31	13	9	6	3	1	1				4
PORTUGUESE		58	1.4			1	15	8	8	6	9	6	1	2	1	1		
VIETNAMESE		5	.1			1		2	1		1							
OTHER RACES		85	2.0			7	29	20	12	9	4	2						2
UNKNOWN		1						1										

TABLE 65

DIVORCES AND ANNULMENTS BY RACE AND AGE OF WIFE
STATE OF HAWAII, 1982

RACE OF WIFE		ALL AGES		AGE OF WIFE														
		NUMBER	PERCENT	UNDER 18	18-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75 & OVER	UN-KNOWN
ALL RACES	NUMBER	4,233	100.0	4	52	719	1108	928	601	361	179	125	64	38	15	1	5	33
	PERCENT	100.0		.1	1.2	17.0	26.2	21.9	14.2	8.5	4.2	3.0	1.5	.9	.4		.1	.8
CAUCASIAN		1,920	45.4	2	32	350	466	446	257	167	67	65	28	16	9		3	12
HAWAIIAN		29	.7			4	6	6	4	3	4	1	1					
PART HAWAIIAN		503	11.9		2	93	141	107	76	40	19	9	8	4	2			2
CHINESE		140	3.3		1	14	29	37	28	13	4	6	4	2				2
FILIPINO		495	11.7	1	4	95	146	90	68	38	24	9	7	4		1	2	6
JAPANESE		569	13.4		3	73	155	121	95	48	31	18	13	8	2			2
PUERTO RICAN		34	.8			8	7	3	3	5	3	3	1		1			
KOREAN		257	6.1		2	26	72	63	42	26	15	5	2	1	1			2
SAMOAN		28	.7		1	7	6	1	4	4	1	1						3
NEGRO		88	2.1	1	4	20	36	13	2	5	4	2						1
PORTUGUESE		64	1.5		2	10	15	15	7	5	4	3		3				
VIETNAMESE		19	.4			1	4	8	4	1	1							
OTHER RACES		87	2.1		1	18	25	18	11	6	2	3						3
UNKNOWN																		

TABLE 66

DIVORCES AND ANNULMENTS BY RACE OF HUSBAND AND OF WIFE
STATE OF HAWAII, 1982

RACE OF HUSBAND		ALL RACES		RACE OF WIFE													
		NUMBER	PERCENT	CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	SAMOAN	NEGRO	PORTUGUESE	VIETNAMESE	OTHER RACES	UNKNOWN
ALL RACES	NUMBER	4,233	100.0	1920	29	503	140	495	569	34	257	28	88	64	19	87	
	PERCENT	100.0		45.4	.7	11.9	3.3	11.7	13.4	.8	6.1	.7	2.1	1.5	.4	2.1	
CAUCASIAN		2,042	48.2	1505	8	104	42	105	107	4	100	3	7	9	11	37	
HAWAIIAN		55	1.3	21	3	15		5	3	2	1		1	4			
PART HAWAIIAN		495	11.7	108	8	155	16	54	66	6	9	2	1	18	2	10	
CHINESE		126	3.0	31		12	41	8	25		5			1		3	
FILIPINO		487	11.5	82	4	65	8	268	31	6	4	1	1	12		5	
JAPANESE		518	12.2	77		41	25	19	311	2	38			2		3	
PUERTO RICAN		48	1.1	11	2	10	1	5	3	7	1		1	5		2	
KOREAN		113	2.7	6		5	4	3	7		87				1		
SAMOAN		44	1.0	9	2	11			1		1	18		1		1	
NEGRO		156	3.7	35	1	9	2	11	7	3	6	3	76			3	
PORTUGUESE		58	1.4	7		23	1	7	5	3	1		1	10			
VIETNAMESE		5	.1												4	1	
OTHER RACES		85	2.0	28	1	13		10	3		4	1		2	1	22	
UNKNOWN		1								1							

TABLE 67

DIVORCES AND ANNULMENTS BY LEGAL GROUNDS AND DURATION OF MARRIAGE
STATE OF HAWAII, 1982

LEGAL GROUNDS		TOTAL		DURATION OF MARRIAGE IN YEARS													
		NUMBER	PERCENT	UNDER 1	1	2	3	4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & OVER	UNKNOWN
DIVORCES & ANNULMENTS	NUMBER	4,233	100.0	159	343	493	420	361	1259	616	316	205	55		1	2	3
	PERCENT	100.0		3.8	8.1	11.6	9.9	8.5	29.7	14.6	7.5	4.8	1.3				.1
ABSOLUTE DIVORCES *		4,222	99.7	152	341	492	419	361	1259	616	316	205	55		1	2	3
MARR.IRRETR.BROKEN		4,185	98.9	151	341	491	419	357	1248	606	312	201	54		1	1	3
SEPARATION		31	.7	1		1		4	11	8	2	2	1			1	
GRIEV.MENTAL SUFF.		5	.1							2	2	1					
OTHER		1										1					
UNKNOWN																	
ANNULMENTS		11	.3	7	2	1	1										
MINOR		1		1													
UNDIV. SPOUSE ALIVE		7	.2	4	1	1	1										
DID NOT COHABIT																	
FAILURE TO PROVIDE																	
PHYS. INCOMPATIBLE																	
FRAUD		3	.1	2	1												
OTHER																	
UNKNOWN																	

* INCLUDES TYPE OF DECREE UNSPECIFIED.

TABLE 68

DIVORCES AND ANNULMENTS BY EDUCATION OF HUSBAND AND OF WIFE
STATE OF HAWAII, 1982

EDUCATION OF HUSBAND YEARS OF SCHOOL		TOTAL		EDUCATION OF WIFE - YEARS IN SCHOOL											
				GRADE SCHOOL								COLLEGE			UNKNOWN
		NUMBER	PERCENT	NONE	1-4	5-6	7-8	9	10	11	12	1-3	4	5+	
TOTAL	NUMBER	4,233	100.0	9	14	63	79	96	151	154	1969	998	403	195	102
	PERCENT	100.0		.2	.3	1.5	1.9	2.3	3.6	3.6	46.5	23.6	9.5	4.6	2.4
NONE		10	.2	4	2						2		1		1
GRADE SCHOOL: 1 - 4		27	.6		3	4			1	1	3	4	2		9
5 - 6		35	.8		2	10			4	2	10	2	2		3
7 - 8		80	1.9	1		3	9	6	9	7	28	7	1	2	7
9		70	1.7			2	5	12	4	3	33	6	2		3
10		140	3.3			1	6	9	14	13	65	24	2	1	5
11		155	3.7			2	5	5	9	16	93	15	1	3	6
12		1,794	42.4	2	4	20	28	45	81	79	1130	282	69	22	32
COLLEGE: 1 - 3		921	21.8		2	3	11	12	19	16	354	369	80	39	16
4		534	12.6	1		9	4	2	4	6	128	180	155	40	5
5+		328	7.7	1			2		1	4	58	92	80	84	6
UNKNOWN		139	3.3		1	9	9	5	5	7	65	17	8	4	9

TABLE 69

DIVORCES AND ANNULMENTS BY RESIDENCE OF HUSBAND AND OF WIFE
STATE OF HAWAII, 1982

RESIDENCE OF HUSBAND	TOTAL RECORDED	RESIDENCE OF WIFE													NON-RESIDENT
		TOTAL	STATE OF HAWAII											UNKNOWN	
			COUNTY OF HAWAII			COUNTY OF HONOLULU			COUNTY OF KAUAI	COUNTY OF MAUI					
			TOTAL	HILO	BAL.	TOTAL	HON.	BAL.		TOTAL	MAUI	LANAI	MOLOKAI		
TOTAL RECORDED	4,233	3,708	413	148	265	2,801	1,411	1,390	164	312	295	10	7	18	525
STATE OF HAWAII	3,719	3,203	366	135	231	2,387	1,195	1,192	153	280	263	10	7	17	516
COUNTY OF HAWAII	400	364	321	124	197	37	18	19	1	5	4		1		36
CITY OF HILO	119	113	104	84	20	8	2	6		1	1				6
BALANCE OF COUNTY	281	251	217	40	177	29	16	13	1	4	3		1		30
COUNTY OF HONOLULU	2,801	2,363	32	10	22	2,274	1,130	1,144	12	33	31	1	1	12	438
CITY OF HONOLULU	1,333	1,158	15	6	9	1,116	822	294	5	15	15			7	175
BALANCE OF COUNTY	1,468	1,205	17	4	13	1,158	308	850	7	18	16	1	1	5	263
COUNTY OF KAUAI	164	150	3		3	11	7	4	134	2	1		1		14
COUNTY OF MAUI	292	264	3	1	2	26	14	12		230	217	9	4	5	28
ISLAND OF MAUI	270	246	3	1	2	21	11	10		217	216	1		5	24
ISLAND OF LANAI	10	9				1		1		8		8			1
ISLAND OF MOLOKAI	12	9				4	3	1		5	1		4		3
UNKNOWN	62	62	7		7	39	26	13	6	10	10				
NONRESIDENT	514	505	47	13	34	414	216	198	11	32	32			1	9

TABLE 70
DIVORCES AND ANNULMENTS BY AGE OF HUSBAND AND OF WIFE
STATE OF HAWAII, 1982

AGE OF HUSBAND		ALL AGES		AGE OF WIFE													
		NUMBER	PERCENT	UNDER 18	18-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75 & OVER	UNKNOWN
ALL AGES	NUMBER	4,233	100.0	4	52	719	1108	928	601	361	179	125	64	38	15	1	5	33
	PERCENT	100.0		.1	1.2	17.0	26.2	21.9	14.2	8.5	4.2	3.0	1.5	.9	.4		.1	.8
UNDER 18		1				1												
18 - 19		10	.2		6	3	1											
20 - 24		461	10.9	2	34	317	81	20	3			1						3
25 - 29		887	21.0	2	8	270	481	86	23	5	4							8
30 - 34		985	23.3		1	84	376	423	72	14	3	3						9
35 - 39		722	17.1			22	112	271	253	42	14	5	1					2
40 - 44		443	10.5			9	27	61	156	149	23	12	2					4
45 - 49		255	6.0		1	4	9	25	48	90	55	17	3	2				1
50 - 54		169	4.0			1	4	10	21	34	41	44	9	4				1
55 - 59		106	2.5				4	8	10	12	20	23	19	6	2			2
60 - 64		84	2.0		1	1	3	4	5	10	9	10	20	17	3			1
65 - 69		37	.9				2	1	2	4	5	6	5	5	4		1	2
70 - 74		23	.5			1	1	6	2		2	2	3	3	2		1	
75 & OVER		13	.3				1	3			1	1	2		1	1	3	
UNKNOWN		37	.9		1	6	6	10	6	1	2	1		1	3			

HAWAII TUMOR REGISTRY

The total number of resident cancer cases reported in Hawaii in 1981 (the most recent year of complete registration) was 2,827, a 2.1% increase over the number of cases (2,769) reported in 1980. The additional 58 cases reported in 1981 were mostly female (4.2% increase). There was little change in the number (1,456) of male cases registered in 1981.

The three most common cancers among resident males in 1981 were of the lung, prostate, and stomach (the latter replacing cancer of the colon as the third most common cancer among males). Among resident females the three most common cancer sites in 1981 were breast, colon, and cervix (the same three as in 1980). In women, lung cancer remained in fifth place among the common cancers.

In 1981, cancer of the lung was the most common malignant disease in Caucasian, Japanese, and Hawaiian or part-Hawaiian males, while cancer of the prostate was most common in Filipino and Chinese males. Cancer of the breast remains the most common female malignant disease among all major races in the State.

The median age-at-diagnosis for resident males in 1981 was 66.7 years. The median age-at-diagnosis for resident females in 1981 was 59.3 years.

Of the 1,456 male resident cases registered in 1981, 833 (57.2%) were alive at last report.

Of the 1,371 female resident cases registered in 1981, 988 (72.1%) were alive at last report.

TABLE 1

MOST COMMON CANCERS REPORTED BY SITE AND RACE
MALE RESIDENTS
STATE OF HAWAII, 1981

SITE	Total All Races	RACE					
		Caucasian	Chinese	Filipino	Hawaiian	Japanese	Other
Total All Sites	1,456	519	89	176	143	436	93
Bladder	89	48	7	5	2	25	2
Colon	155	35	14	19	5	76	6
Leukemia	32	8	2	3	5	10	4
Lung	240	9	15	23	30	69	12
Melanoma	32	28	-	-	1	2	1
Liver	41	8	2	9	7	12	3
Prostate	230	85	16	36	16	63	14
Rectum	105	25	8	14	15	32	11
Stomach	108	23	5	6	13	53	8
Other	424	168	20	61	49	94	32

TABLE 2

MOST COMMON CANCERS REPORTED BY SITE AND RACE
FEMALE RESIDENTS
STATE OF HAWAII, 1981

SITE	Total All Races	RACE					
		Caucasian	Chinese	Filipina	Hawaiian	Japanese	Other
Total All Sites	1,371	452	90	101	213	401	114
Breast	350	125	28	19	58	104	16
Cervix	122	50	4	11	18	20	19
Uterus	115	31	10	12	28	27	7
Colon	129	32	18	5	8	59	7
Lung	113	40	5	11	23	26	8
Ovary	51	10	3	4	13	18	3
Rectum	48	14	3	3	7	19	2
Stomach	67	11	1	-	9	33	13
Thyroid	51	7	1	11	7	13	12
Other	325	132	17	25	42	82	27

TABLE 3

HAWAII TUMOR REGISTRATIONS
RACE AND AGE

MALE

STATE OF HAWAII, 1981

AGE	Total All Races	RACE					
		Caucasian	Chinese	Filipino	Hawaiian	Japanese	Other
Total All Ages	1,456	519	89	176	143	436	93
0 - 1 Years	1	-	-	-	-	-	1
1 - 4 Years	8	4	-	1	1	1	1
5 - 14 Years	8	2	-	1	3	-	2
15 - 24 Years	18	7	1	1	2	5	2
25 - 34 Years	34	13	1	4	6	7	3
35 - 44 Years	57	24	7	4	9	7	6
45 - 54 Years	140	57	6	10	19	30	18
55 - 64 Years	384	149	12	25	47	124	27
65 - 74 Years	462	167	28	65	36	150	16
75 + Years	341	95	34	65	20	111	16
Unknown	3	1	-	-	-	1	1

TABLE 4

HAWAII TUMOR REGISTRATIONS
RACE AND AGE

FEMALE

STATE OF HAWAII, 1981

AGE	Total All Races	RACE					
		Caucasian	Chinese	Filipina	Hawaiian	Japanese	Other
Total All Ages	1,371	452	90	101	213	401	114
0 - 1 Years	2	2	-	-	-	-	-
1 - 4 Years	5	2	-	-	-	-	3
5 - 14 Years	7	1	-	-	4	-	2
15 - 24 Years	35	9	1	1	6	3	15
25 - 34 Years	109	47	7	7	13	17	18
35 - 44 Years	137	45	6	13	25	32	16
45 - 54 Years	248	61	13	36	50	76	12
55 - 64 Years	329	100	24	17	54	114	20
65 - 74 Years	241	96	15	11	34	73	12
75 + Years	258	89	24	16	27	86	16

TABLE 5

HAWAII TUMOR REGISTRATION, RECENT YEARS

VITAL STATUS

MALE

STATE OF HAWAII

VITAL STATUS	YEAR OF DIAGNOSIS			
	1978	1979	1980	1981
Alive, no cancer reported	324	352	440	529
Alive, cancer present	57	94	129	192
Alive, cancer status unknown	133	121	118	112
Expired, no cancer present	52	65	35	30
Expired, cancer present	756	734	731	588
Expired, cancer status unknown	14	8	9	5
TOTAL	1,336	1,374	1,462	1,456

TABLE 6

HAWAII TUMOR REGISTRATIONS, RECENT YEARS

VITAL STATUS

FEMALE

STATE OF HAWAII

VITAL STATUS	YEAR OF DIAGNOSIS			
	1978	1979	1980	1981
Alive, no cancer reported	457	571	666	748
Alive, cancer present	44	62	69	124
Alive, cancer status unknown	167	170	178	116
Expired, no cancer present	41	34	17	14
Expired, cancer present	471	477	394	367
Expired, cancer status unknown	10	12	2	2
TOTAL	1,190	1,326	1,326	1,371

TABLE 7

TUMOR STATUS IN LIVING PATIENTS, RECENT YEARS

MALE

STATE OF HAWAII

TUMOR STATUS	YEAR OF DIAGNOSIS			
	1978	1979	1980	1981
No evidence of disease	324	352	440	529
Residual disease	18	36	56	69
Recurrent disease	1	9	10	19
Metastatic disease	34	44	57	93
Tumor status unknown	133	121	118	112
Other cancer present	4	5	6	9
Cancer present, origin unknown	-	-	-	2
Total	514	567	687	833

TABLE 8

TUMOR STATUS IN LIVING PATIENTS, RECENT YEARS

FEMALE

STATE OF HAWAII

TUMOR STATUS	YEAR OF DIAGNOSIS			
	1978	1979	1980	1981
No evidence of disease	457	571	666	748
Residual disease	10	9	18	34
Recurrent disease	1	7	6	9
Metastatic disease	32	42	42	77
Tumor status unknown	167	170	178	116
Other cancer present	1	4	3	4
Total	668	803	913	988

HAWAII HEALTH SURVEILLANCE PROGRAM
1982

The Hawaii Health Surveillance Program administers a continuous statewide household survey of health and socio-demographic conditions of the state. The survey is conducted as a means of providing Health Department programs and other state and private agencies with statistics for planning and evaluation of health services, programs, and problems. Furthermore, the survey provides demographic information for observing population changes during the intercensal decade.

The households interviewed in the Health Survey are selected systematically from a target population limited to the non-institutional population. During the 1982 period, 6,822 households were selected and 16,309 persons were interviewed. Persons excluded from our sample are those living in military barracks, nursing homes or rest homes, prisons, dormitories, the Island of Niihau, and Kalaupapa Settlement. Because of the exclusion of this group, the health characteristics of the non-institutionalized population can be affected since institutionalization is often contingent upon the health of a person.

The tables which follow are shown in five groups. The first group, Tables 1-14, show the prevalence and number per 1,000 persons per year of selected chronic conditions by geographic area, sex, age, and ethnicity. A comparison of the number of chronic conditions per 1,000 persons per year from 1977 through 1982 are shown in Table 15. The geographic areas used for Oahu include census tracts 1-45 for East Honolulu, 46-66 for West Honolulu, 67-95 and 99-100 for Central Oahu, 96-98 for Waianae, and 101-113 for Windward.

The second group of tables, Tables 16-18, show the activity limitation status for persons with chronic conditions by age and sex and family income. The limitation of activity question was asked only of persons who reported having at least one chronic condition in the 12 months prior to the month of interview. These people were asked to rate themselves in terms of their health according to a scale of 1 to 4. The scale was represented as follows: 1=Not Able To Work At All; 2=Able To Work But Limited In Type Or Amount Of Work; 3=Able To Work But Limited In Type Or Amount Of Other Activity; 4=Not Limited In Any Way.

The incidence and number per 100 persons per year of acute conditions is exhibited in Tables 19-28, by geographic areas, sex, age, and ethnicity. Since the frequency of acute conditions are recorded on a monthly basis, the acute conditions were multiplied by twelve (12) in order that a yearly morbidity rate could be calculated. A comparison of the number of acute conditions per 100 persons per year from 1977 through 1982 are shown in Table 29.

Tables 30-36 depict the different types of disability days for persons who have acute and/or chronic conditions by geographic areas and age. Restricted activity day is a day during which a person had to cut down on his usual activity for all or most of the day. A bed day is defined as a day during which a person reported staying in bed for all or most of a day. The work day lost or school day lost is a day during which a person is normally at work or school, but due to an illness or injury, could not work or go to school for all or most of the day. Total restricted activity days include bed days, work days, and school days lost.

TABLE 1
PREVALENCE OF SELECTED CHRONIC CONDITIONS
BY GEOGRAPHIC AREA, 1982 *

SELECTED CHRONIC CONDITION	STATE	OAHU	EAST HON.	WEST HON.	CENTRAL OAHU	WAIANAE	WIND-WARD	KAUAI	MAUI COUNTY	HAWAII
HEART CONDITION	22,178	16,416	7,295	2,321	4,031	628	2,141	1,080	1,878	2,805
IMPAIRMENTS OF BACK OR SPINE	44,646	34,680	14,789	3,308	9,533	512	6,538	2,372	4,605	2,989
HYPERTENSION WITHOUT HEART INVOLVEMENT	67,620	50,514	19,660	6,637	15,978	1,558	6,682	3,745	6,367	6,994
ARTHRITIS/ RHEUMATISM	29,312	23,556	11,160	2,969	5,649	269	3,508	1,409	2,620	1,727
HEARING IMPAIRMENT	30,139	22,680	10,232	2,282	7,222	59	2,886	1,401	3,726	2,331
ASTHMA, WITH OR WITHOUT HAYFEVER	35,441	27,115	8,113	3,686	9,077	748	5,491	2,133	3,025	3,168
DIABETES	18,590	13,443	4,771	2,377	3,352	849	2,094	1,223	2,066	1,858
MENTAL AND NERVOUS CONDITION	16,956	13,285	6,054	1,472	3,886	83	1,789	827	1,645	1,198
VISUAL IMPAIRMENT	12,015	8,930	4,184	1,352	2,166	---	1,227	713	1,274	1,099
MALIGNANT NEOPLASMS	6,060	4,856	2,288	455	1,346	89	678	286	603	316
CHRONIC AND ALLERGIC SKIN CONDITIONS	28,770	23,757	9,569	1,782	9,866	85	2,454	1,200	2,312	1,501
CHRONIC SINUSITIS	27,717	22,542	8,413	1,913	8,014	---	4,202	750	2,731	1,695
HAYFEVER WITH-OUT ASTHMA	45,792	38,438	16,292	2,404	12,221	130	7,392	1,415	3,672	2,266
STOMACH ULCER	6,248	4,278	1,714	604	1,254	43	663	323	824	823
BRONCHITIS/ EMPHYSEMA	15,459	12,368	4,816	951	4,201	267	2,133	647	1,396	1,048
BENIGN AND UNSPECIFIED NEOPLASMS	6,539	5,574	2,506	209	1,543	93	1,223	310	374	282
HEMORRHOIDS	16,969	14,061	6,160	612	5,678	---	1,611	457	1,390	1,061
THYROID/ GOITER	5,450	4,736	1,834	317	1,566	---	1,019	120	417	178
VARICOSE VEINS	10,948	8,544	3,724	637	2,878	---	1,305	730	851	824
GOUT	10,072	7,638	2,758	1,247	2,026	88	1,519	588	858	988

*Numbers may not add up due to rounding.

TABLE 2
NUMBER OF SELECTED CHRONIC CONDITIONS
PER 1,000 PERSONS BY GEOGRAPHIC AREA, 1982

SELECTED CHRONIC CONDITION	STATE	OAHU	EAST HON.	WEST HON.	CENTRAL OAHU	WAIANAE	WIND-WARD	KAUAI	MAUI COUNTY	HAWAII
HEART CONDITION	23.2	22.2	31.6	28.0	14.6	19.7	18.1	26.7	23.8	29.1
IMPAIRMENTS OF BACK OR SPINE	46.7	46.8	64.1	39.9	34.5	16.1	55.2	58.7	58.3	31.0
HYPERTENSION WITHOUT HEART INVOLVEMENT	70.7	68.2	85.2	80.0	57.8	48.9	56.4	92.7	80.6	72.6
ARTHRITIS/ RHEUMATISM	30.7	31.8	48.4	35.8	20.4	8.4	29.6	34.9	33.2	17.9
HEARING IMPAIRMENT	31.5	30.6	44.3	27.5	26.1	1.9	24.3	34.7	47.2	24.2
ASTHMA, WITH OR WITHOUT HAYFEVER	37.1	36.6	35.2	44.4	32.9	23.5	46.3	52.8	38.3	32.9
DIABETES	19.4	18.2	20.7	28.6	12.1	26.6	17.7	30.3	26.2	19.3
MENTAL AND NERVOUS CONDITION	17.7	17.9	26.2	17.7	14.1	2.6	15.1	20.5	20.8	12.4
VISUAL IMPAIRMENT	12.6	12.1	18.1	16.3	7.8	---	10.4	17.7	16.1	11.4
MALIGNANT NEOPLASMS	6.3	6.6	9.9	5.5	4.9	2.8	5.7	7.1	7.6	3.3
CHRONIC AND ALLERGIC SKIN CONDITIONS	30.1	32.1	41.5	21.5	35.7	2.7	20.7	29.7	29.3	15.6
CHRONIC SINUSITIS	29.0	30.4	36.5	23.0	29.0	---	35.5	18.6	34.6	17.6
HAYFEVER WITHOUT ASTHMA	47.9	51.9	70.6	29.0	44.2	4.1	62.4	35.0	46.5	23.5
STOMACH ULCER	6.5	5.8	7.4	7.3	4.5	1.4	5.6	8.0	10.4	8.5
BRONCHITIS/ EMPHYSEMA	16.2	16.7	20.9	11.5	15.2	8.4	18.0	16.0	17.7	10.9
BENIGN AND UNSPECIFIED NEOPLASMS	6.8	7.5	10.9	2.5	5.6	2.9	10.3	7.7	4.7	2.9
HEMORRHOIDS	17.7	19.0	26.7	7.4	20.6	---	13.6	11.3	17.6	11.0
THYROID/ GOITER	5.7	6.4	7.9	3.8	5.7	---	8.6	3.0	5.3	1.8
VARICOSE VEINS	11.5	11.5	16.1	7.7	10.4	---	11.0	18.1	10.8	8.5
GOUT	10.5	10.3	12.0	15.0	7.3	2.8	12.8	14.6	10.9	10.2

TABLE 3
PREVALENCE OF SELECTED CHRONIC CONDITIONS
FOR MALES BY GEOGRAPHIC AREA, 1982 *

SELECTED CHRONIC CONDITION	STATE	OAHU	EAST HON.	WEST HON.	CENTRAL OAHU	WAIANAE	WIND-WARD	KAUAI	MAUI COUNTY	HAWAII
HEART CONDITION	11,471	8,775	3,598	1,337	2,241	326	1,272	483	963	1,250
IMPAIRMENTS OF BACK OR SPINE	23,867	18,803	7,203	1,946	5,099	274	4,282	1,439	2,165	1,460
HYPERTENSION WITHOUT HEART INVOLVEMENT	31,398	23,392	8,515	3,220	7,604	645	3,409	2,222	2,954	2,831
ARTHRITIS/ RHEUMATISM	10,618	8,694	3,519	1,198	3,084	49	844	572	853	499
HEARING IMPAIRMENT	21,523	16,446	6,657	1,889	6,073	---	1,826	976	2,438	1,663
ASTHMA, WITH OR WITHOUT HAYFEVER	16,549	12,771	3,530	1,608	4,531	311	2,792	1,161	1,239	1,378
DIABETES	9,039	6,375	2,324	1,314	1,277	462	999	652	1,129	884
MENTAL AND NERVOUS CONDITION	5,747	4,730	2,329	390	1,273	83	656	205	599	212
VISUAL IMPAIRMENT	6,165	4,242	1,818	410	1,647	---	367	468	815	640
MALIGNANT NEOPLASMS	3,199	2,610	928	267	1,003	43	370	114	183	293
CHRONIC AND ALLERGIC SKIN CONDITIONS	13,004	10,980	4,479	984	4,427	85	1,005	481	987	556
CHRONIC SINUSITIS	14,212	12,029	4,273	921	4,473	---	2,362	298	978	907
HAYFEVER WITH-OUT ASTHMA	19,305	15,780	6,327	691	5,474	---	3,287	709	1,828	988
STOMACH ULCER	3,859	2,692	1,038	405	742	43	464	181	420	566
BRONCHITIS/ EMPHYSEMA	7,584	6,209	1,846	619	2,332	74	1,337	290	505	580
BENIGN AND UNSPECIFIED NEOPLASMS	1,532	1,131	613	77	292	---	149	52	129	221
HEMORRHOIDS	6,983	5,710	2,686	287	2,030	---	707	236	605	433
THYROID/ GOITER	1,058	904	540	91	196	---	78	35	60	59
VARICOSE VEINS	1,611	1,309	798	91	338	---	81	125	91	86
GOUT	8,786	6,629	2,434	975	1,751	88	1,380	497	753	907

*Numbers may not add up due to rounding.

TABLE 4
NUMBER OF SELECTED CHRONIC CONDITIONS PER 1,000 MALES PER YEAR
BY GEOGRAPHIC AREA, 1982

SELECTED CHRONIC CONDITION	STATE	OAHU	EAST HON.	WEST HON.	CENTRAL OAHU	WAIANAE	WIND-WARD	KAUAI	MAUI COUNTY	HAWAII
HEART CONDITION	23.9	23.7	32.2	32.9	15.7	20.2	21.5	23.5	24.2	25.6
IMPAIRMENTS OF BACK OR SPINE	49.8	50.8	64.4	47.9	35.8	17.0	72.2	69.9	54.4	29.9
HYPERTENSION WITHOUT HEART INVOLVEMENT	65.5	63.2	76.2	79.3	53.4	40.3	57.5	108.0	74.2	57.9
ARTHRITIS/ RHEUMATISM	22.1	23.5	31.5	29.5	21.7	3.0	14.2	27.8	21.4	10.2
HEARING IMPAIRMENT	44.9	44.4	59.6	46.5	42.7	---	30.8	47.4	61.2	34.0
ASTHMA, WITH OR WITHOUT HAYFEVER	34.5	34.5	31.6	39.6	31.8	19.3	47.1	56.4	31.1	28.2
DIABETES	18.9	17.2	20.8	32.3	9.0	28.6	16.8	31.7	28.3	18.1
MENTAL AND NERVOUS CONDITION	12.0	12.8	20.8	9.6	8.9	5.2	11.1	10.0	15.0	4.3
VISUAL IMPAIRMENT	12.9	11.5	16.3	10.1	11.6	---	6.2	22.8	20.5	13.1
MALIGNANT NEOPLASMS	6.7	7.1	8.3	6.6	7.0	2.7	6.2	5.5	4.6	6.0
CHRONIC AND ALLERGIC SKIN CONDITIONS	27.1	29.7	40.1	24.2	31.1	5.3	16.9	23.4	24.8	11.4
CHRONIC SINUSITIS	29.6	32.5	38.2	22.7	31.4	---	39.8	14.5	24.6	18.6
HAYFEVER WITH-OUT ASTHMA	40.3	42.6	56.6	17.0	38.5	---	55.4	34.5	45.9	20.2
STOMACH ULCER	8.0	7.3	9.3	10.0	5.2	2.7	7.8	8.8	10.5	11.6
BRONCHITIS/ EMPHYSEMA	15.8	16.8	16.5	15.2	16.4	4.6	22.6	14.1	12.7	11.9
BENIGN AND UNSPECIFIED NEOPLASMS	3.2	3.1	5.5	1.9	2.1	---	2.5	2.5	3.2	4.5
HEMORRHOIDS	14.6	15.4	24.0	7.1	14.3	---	11.9	11.4	15.2	8.9
THYROID/ GOITER	2.2	2.4	4.8	2.3	1.4	---	1.3	1.7	1.5	1.2
VARICOSE VEINS	3.4	3.5	7.1	2.3	2.4	---	1.4	6.1	2.2	1.8
GOUT	18.2	17.9	21.8	24.0	12.3	5.5	23.3	24.2	18.9	18.6

TABLE 5
PREVALENCE OF SELECTED CHRONIC CONDITIONS
FOR FEMALES BY GEOGRAPHIC AREA, 1982 *

SELECTED CHRONIC CONDITION	STATE	OAHU	EAST HON.	WEST HON.	CENTRAL OAHU	WAIANAE	WIND-WARD	KAUAI	MAUI COUNTY	HAWAI
HEART CONDITION	10,707	7,641	3,696	984	1,790	302	869	597	915	1,555
IMPAIRMENTS OF BACK OR SPINE	20,779	15,877	7,587	1,362	4,434	238	2,256	933	2,440	1,529
HYPERTENSION WITHOUT HEART INVOLVEMENT	36,222	27,122	11,144	3,417	8,374	914	3,274	1,523	3,413	4,164
ARTHRITIS/ RHEUMATISM	18,694	14,862	7,642	1,771	2,565	220	2,664	837	1,767	1,228
HEARING IMPAIRMENT	8,616	6,235	3,575	393	1,149	59	1,059	426	1,288	668
ASTHMA, WITH OR WITHOUT HAYFEVER	18,892	14,344	4,583	2,078	4,546	438	2,700	972	1,786	1,790
DIABETES	9,551	7,068	2,447	1,063	2,075	387	1,095	571	937	974
MENTAL AND NERVOUS CONDITION	11,209	8,554	3,726	1,082	2,613	---	1,133	622	1,046	986
VISUAL IMPAIRMENT	5,850	4,688	2,366	942	520	---	860	245	459	459
MALIGNANT NEOPLASMS	2,861	2,246	1,360	189	344	45	308	172	420	23
CHRONIC AND ALLERGIC SKIN CONDITIONS	15,767	12,777	5,090	798	5,439	---	1,449	720	1,326	945
CHRONIC SINUSITIS	13,504	10,512	4,139	992	3,541	---	1,841	452	1,753	788
HAYFEVER WITHOUT ASTHMA	26,487	22,659	9,965	1,712	6,747	130	4,104	706	1,845	1,279
STOMACH ULCER	2,389	1,586	677	199	512	---	199	142	404	257
BRONCHITIS/ EMPHYSEMA	7,875	6,160	2,970	333	1,869	193	796	357	891	466
BENIGN AND UNSPECIFIED NEOPLASMS	5,007	4,443	1,893	133	1,250	93	1,074	257	246	61
HEMORRHOIDS	9,986	8,352	3,474	325	3,648	---	905	222	785	628
THYROID/ GOITER	4,392	3,831	1,294	225	1,371	---	941	85	357	119
VARICOSE VEINS	9,337	7,235	2,926	546	2,540	---	1,224	605	760	737
GOUT	1,286	1,010	324	272	275	---	138	91	105	81

*Numbers may not add up due to rounding.

TABLE 6
NUMBER OF SELECTED CHRONIC CONDITIONS PER 1,000 FEMALES PER YEAR
BY GEOGRAPHIC AREA, 1982

SELECTED CHRONIC CONDITION	STATE	OAHU	EAST HON.	WEST HON.	CENTRAL OAHU	WAIANAE	WIND-WARD	KAUAI	MAUI COUNTY	HAWAII
HEART CONDITION	22.5	20.6	31.1	23.2	13.4	19.2	14.7	30.1	23.4	32.7
IMPAIRMENTS OF BACK OR SPINE	43.6	42.8	63.8	32.1	33.1	15.2	38.1	47.1	62.3	32.1
HYPERTENSION WITHOUT HEART INVOLVEMENT	76.0	73.3	93.7	80.6	62.5	58.2	55.3	76.7	87.2	87.6
ARTHRITIS/ RHEUMATISM	39.2	40.1	64.2	41.7	19.1	14.0	45.0	42.2	45.2	25.8
HEARING IMPAIRMENT	18.1	16.8	30.0	9.3	8.6	3.8	17.9	21.5	32.9	14.1
ASTHMA, WITH OR WITHOUT HAYFEVER	39.6	38.7	38.5	49.0	33.9	27.8	45.6	49.0	45.6	37.7
DIABETES	20.0	19.1	20.6	25.1	15.5	24.6	18.5	28.8	24.0	20.5
MENTAL AND NERVOUS CONDITION	23.5	23.1	31.3	25.5	19.5	---	19.1	31.4	27.0	20.8
VISUAL IMPAIRMENT	12.3	12.7	19.9	22.2	3.9	---	14.5	12.4	11.7	9.7
MALIGNANT NEOPLASMS	6.0	6.1	11.4	4.4	2.6	2.9	5.2	8.7	10.7	0.5
CHRONIC AND ALLERGIC SKIN CONDITIONS	33.1	34.5	42.8	18.8	40.6	---	24.5	36.3	33.9	19.9
CHRONIC SINUSITIS	28.3	28.4	34.8	23.4	26.4	---	31.1	22.8	44.8	16.6
HAYFEVER WITHOUT ASTHMA	55.6	61.2	83.7	40.4	50.4	8.3	69.3	35.6	47.1	26.9
STOMACH ULCER	5.0	4.3	5.7	4.7	3.8	---	3.4	7.2	10.3	5.4
BRONCHITIS/ EMPHYSEMA	16.5	16.6	25.0	7.8	13.9	12.3	13.4	18.0	22.8	9.8
BENIGN AND UNSPECIFIED NEOPLASMS	10.5	12.0	15.9	3.1	9.3	5.9	18.1	13.0	6.3	1.3
HEMORRHOIDS	20.9	22.6	29.2	7.7	27.2	---	15.3	11.2	20.1	13.2
THYROID/ GOITER	9.2	10.3	10.9	5.3	10.2	---	15.9	4.3	9.1	2.5
VARICOSE VEINS	19.6	19.5	24.6	12.9	19.0	---	20.7	30.5	19.4	15.5
GOUT	2.7	2.7	2.7	6.4	2.1	---	2.3	4.6	2.7	1.7

TABLE 7
PREVALENCE OF SELECTED CHRONIC CONDITIONS BY AGE,
1982 *

SELECTED CHRONIC CONDITIONS	ALL AGES	UNDER 17 YEARS	17-44 YEARS	45-64 YEARS	65 YEARS AND OVER
HEART CONDITION	22,178	871	3,682	8,862	8,763
IMPAIRMENTS OF BACK OR SPINE	44,646	1,841	24,372	11,900	6,533
HYPERTENSION WITHOUT HEART INVOLVEMENT	67,620	156	13,160	35,099	19,205
ARTHRITIS/ RHEUMATISM	29,312	112	3,726	13,565	11,909
HEARING IMPAIRMENT	30,139	2,807	8,170	10,755	8,407
ASTHMA, WITH OR WITHOUT HAYFEVER	35,441	13,973	13,497	6,043	1,927
DIABETES	18,590	71	3,249	8,537	6,733
MENTAL AND NERVOUS CONDITION	16,956	978	9,120	4,317	2,541
VISUAL IMPAIRMENT	12,015	535	2,286	2,858	6,336
MALIGNANT NEOPLASMS	6,060	73	1,127	2,339	2,521
CHRONIC AND ALLERGIC SKIN CONDITIONS	28,770	7,296	14,753	5,153	1,568
CHRONIC SINUSITIS	27,717	2,256	18,507	5,589	1,364
HAYFEVER WITHOUT ASTHMA	45,792	9,392	25,654	8,591	2,154
STOMACH ULCER	6,248	69	2,300	2,537	1,342
BRONCHITIS/ EMPHYSEMA	15,459	4,203	4,876	3,338	3,042
BENIGN AND UNSPECIFIED NEOPLASMS	6,539	180	3,852	712	6,539
HEMORRHOIDS	16,969	95	10,865	4,623	1,386
THYROID/ GOITER	5,450	114	1,852	2,316	1,168
VARICOSE VEINS	10,948	---	4,036	4,926	1,986
GOUT	10,072	5	1,587	5,034	3,447

*Numbers may not add up due to rounding.

TABLE 8
NUMBER OF CHRONIC CONDITIONS PER 1,000 PERSONS PER YEAR BY AGE
1982

SELECTED CHRONIC CONDITIONS	ALL AGES	UNDER 17 YEARS	17-44 YEARS	45-64 YEARS	65 YEARS AND OVER
HEART CONDITION	23.2	3.3	8.6	48.6	113.1
IMPAIRMENTS OF BACK OR SPINE	46.7	6.9	56.8	65.3	84.3
HYPERTENSION WITHOUT HEART INVOLVEMENT	70.2	0.6	30.7	192.7	247.8
ARTHRITIS/ RHEUMATISM	30.7	0.4	8.7	74.5	153.7
HEARING IMPAIRMENT	31.5	10.5	19.0	59.0	108.5
ASTHMA, WITH OR WITHOUT HAYFEVER	37.6	52.2	31.5	33.2	24.7
DIABETES	19.4	0.3	7.6	46.9	86.9
MENTAL AND NERVOUS CONDITION	17.7	3.7	21.3	23.7	32.8
VISUAL IMPAIRMENT	12.6	2.0	5.3	15.7	81.8
MALIGNANT NEOPLASMS	6.3	0.3	2.6	12.8	32.5
CHRONIC AND ALLERGIC SKIN CONDITIONS	30.1	27.3	34.4	28.3	20.2
CHRONIC SINUSITIS	29.0	8.4	43.1	30.7	17.6
HAYFEVER WITHOUT ASTHMA	47.9	35.1	59.8	47.2	27.8
STOMACH ULCER	6.5	0.3	5.4	14.0	17.3
BRONCHITIS/ EMPHYSEMA	16.2	15.7	11.4	18.3	39.3
BENIGN AND UNSPECIFIED NEOPLASMS	6.8	0.7	9.0	9.9	9.2
HEMORRHOIDS	17.7	0.4	25.3	25.4	17.9
THYROID/ GOITER	5.7	0.4	4.3	12.7	15.1
VARICOSE VEINS	11.5	---	9.4	27.0	25.6
GOUT	10.5	---	3.7	27.6	44.5

TABLE 9
PREVALENCE OF SELECTED CHRONIC CONDITIONS
FOR MALES BY AGE, 1982 *

SELECTED CHRONIC CONDITIONS	ALL AGES	UNDER 17 YEARS	17-44 YEARS	45-64 YEARS	65 YEARS AND OVER
HEART CONDITION	11,471	321	1,522	4,897	4,731
IMPAIRMENTS OF BACK OR SPINE	23,867	499	12,633	7,417	3,318
HYPERTENSION WITHOUT HEART INVOLVEMENT	31,398	17	7,463	15,310	8,609
ARTHRITIS/ RHEUMATISM	10,618	32	1,189	4,470	4,928
HEARING IMPAIRMENT	21,523	2,057	6,014	8,033	5,418
ASTHMA, WITH OR WITHOUT HAYFEVER	16,549	8,994	4,569	2,268	718
DIABETES	9,039	59	1,428	4,368	3,183
MENTAL AND NERVOUS CONDITION	5,747	648	3,006	1,547	546
VISUAL IMPAIRMENT	6,165	340	1,299	1,828	2,698
MALIGNANT NEOPLASMS	3,199	---	181	1,252	1,766
CHRONIC AND ALLERGIC SKIN CONDITIONS	13,004	3,821	5,511	2,632	1,039
CHRONIC SINUSITIS	14,212	1,542	9,415	2,758	496
HAYFEVER WITHOUT ASTHMA	19,305	5,050	10,152	3,353	750
STOMACH ULCER	3,859	---	1,507	1,630	722
BRONCHITIS/ EMPHYSEMA	7,584	2,166	1,763	1,726	1,930
BENIGN AND UNSPECIFIED NEOPLASMS	1,532	160	649	502	221
HEMORRHOIDS	6,983	95	4,045	2,211	632
THYROID/ GOITER	1,058	---	395	342	322
VARICOSE VEINS	1,611	---	505	637	470
GOUT	8,786	---	1,436	4,574	2,777

*Numbers may not add up due to rounding.

TABLE 10
NUMBER OF CHRONIC CONDITIONS PER 1,000 MALES PER YEAR BY AGE, 1982

SELECTED CHRONIC CONDITIONS	ALL AGES	UNDER 17 YEARS	17-44 YEARS	45-64 YEARS	65 YEARS AND OVER
HEART CONDITION	23.9	2.3	7.1	55.8	118.9
IMPAIRMENTS OF BACK OR SPINE	49.8	3.6	59.2	84.5	83.4
HYPERTENSION WITHOUT HEART INVOLVEMENT	65.5	0.1	35.0	174.5	216.4
ARTHRITIS/ RHEUMATISM	22.1	0.2	5.6	50.9	123.9
HEARING IMPAIRMENT	44.9	14.9	28.2	91.5	136.2
ASTHMA, WITH OR WITHOUT HAYFEVER	34.5	65.0	21.4	25.8	18.1
DIABETES	18.9	0.4	6.7	49.8	80.0
MENTAL AND NERVOUS CONDITION	12.0	4.7	14.1	17.6	13.7
VISUAL IMPAIRMENT	12.9	2.5	6.1	20.8	67.8
MALIGNANT NEOPLASMS	6.7	---	0.8	14.3	44.4
CHRONIC AND ALLERGIC SKIN CONDITIONS	27.1	27.6	25.8	30.0	26.1
CHRONIC SINUSITIS	29.6	11.1	44.1	31.4	12.5
HAYFEVER WITHOUT ASTHMA	40.3	36.5	47.6	38.2	18.9
STOMACH ULCER	8.4	---	7.1	18.6	18.1
BRONCHITIS/ EMPHYSEMA	15.8	15.6	8.3	19.7	48.5
BENIGN AND UNSPECIFIED NEOPLASMS	3.2	1.2	3.0	5.7	5.5
HEMORRHOIDS	14.6	0.7	18.9	25.2	15.9
THYROID/ GOITER	2.2	---	1.8	3.9	8.1
VARICOSE VEINS	3.4	---	2.4	7.3	11.8
GOUT	18.3	---	6.7	52.1	69.8

TABLE 11
PREVALENCE OF SELECTED CHRONIC CONDITIONS
FOR FEMALES, 1982 *

SELECTED CHRONIC CONDITIONS	ALL AGES	UNDER 17 YEARS	17-44 YEARS	45-64 YEARS	65 YEARS AND OVER
HEART CONDITION	10,707	550	2,160	3,965	4,033
IMPAIRMENTS OF BACK OR SPINE	20,779	1,342	11,739	4,484	3,214
HYPERTENSION WITHOUT HEART INVOLVEMENT	36,222	139	5,698	19,790	10,596
ARTHRITIS/ RHEUMATISM	18,694	80	2,537	9,095	6,981
HEARING IMPAIRMENT	8,616	750	2,156	2,722	2,989
ASTHMA, WITH OR WITHOUT HAYFEVER	18,892	4,979	8,928	3,776	1,209
DIABETES	9,551	12	1,821	4,167	3,550
MENTAL AND NERVOUS CONDITION	11,209	330	6,114	2,770	1,995
VISUAL IMPAIRMENT	5,850	195	988	1,029	3,638
MALIGNANT NEOPLASMS	2,861	73	946	1,086	756
CHRONIC AND ALLERGIC SKIN CONDITIONS	15,767	3,475	9,242	2,521	529
CHRONIC SINUSITIS	13,504	714	9,092	2,831	868
HAYFEVER WITHOUT ASTHMA	26,487	4,342	15,502	5,238	1,404
STOMACH ULCER	2,389	69	793	907	621
BRONCHITIS/ EMPHYSEMA	7,875	2,037	3,113	1,613	1,112
BENIGN AND UNSPECIFIED NEOPLASMS	5,007	20	3,203	1,293	492
HEMORRHOIDS	9,986	---	6,819	2,413	754
THYROID/ GOITER	4,392	114	1,458	1,974	847
VARICOSE VEINS	9,337	---	3,531	4,290	1,516
GOUT	1,286	5	151	461	670

*Numbers may not add up due to rounding.

TABLE 12
NUMBER OF CHRONIC CONDITIONS PER 1,000 FEMALES PER YEAR BY AGE, 1982

SELECTED CHRONIC CONDITIONS	ALL AGES	UNDER 17 YEARS	17-44 YEARS	45-64 YEARS	65 YEARS AND OVER
HEART CONDITION	22.5	4.3	10.0	42.0	106.9
IMPAIRMENTS OF BACK OR SPINE	43.6	10.4	54.5	47.5	85.2
HYPERTENSION WITHOUT HEART INVOLVEMENT	76.0	1.1	26.4	209.6	280.9
ARTHRITIS/ RHEUMATISM	39.2	0.6	11.8	96.3	185.1
HEARING IMPAIRMENT	18.1	5.8	10.0	28.8	79.2
ASTHMA, WITH OR WITHOUT HAYFEVER	39.6	38.6	41.4	40.0	32.1
DIABETES	20.0	0.1	8.5	44.1	94.1
MENTAL AND NERVOUS CONDITION	23.5	2.6	28.4	29.3	52.9
VISUAL IMPAIRMENT	12.3	1.5	4.6	10.9	96.5
MALIGNANT NEOPLASMS	6.0	0.6	4.4	11.5	20.0
CHRONIC AND ALLERGIC SKIN CONDITIONS	33.1	26.9	42.9	26.7	14.0
CHRONIC SINUSITIS	28.3	5.5	42.2	30.0	23.0
HAYFEVER WITHOUT ASTHMA	55.6	33.6	72.0	55.5	37.2
STOMACH ULCER	5.0	0.5	3.7	9.6	16.5
BRONCHITIS/ EMPHYSEMA	16.5	15.8	14.5	17.1	29.5
BENIGN AND UNSPECIFIED NEOPLASMS	10.5	0.2	14.9	13.7	13.0
HEMORRHOIDS	20.9	---	31.7	25.5	20.0
THYROID/ GOITER	9.2	0.9	6.8	20.9	22.4
VARICOSE VEINS	19.6	---	16.4	45.4	40.2
GOUT	2.7	---	• 0.7	4.9	17.8

TABLE 13
PREVALENCE OF SELECTED CHRONIC CONDITIONS
BY ETHNICITY, 1982

SELECTED CHRONIC CONDITION	CAUCASIAN	JAPANESE	HAWAIIAN PT. HAWAIIAN	FILIPINO	CHINESE	OTHER & UNKNOWN
HEART CONDITION	7,222	6,360	4,062	1,526	1,269	1,740
IMPAIRMENTS OF BACK OR SPINE	16,281	11,793	7,017	2,625	1,759	5,170
HYPERTENSION WITHOUT HEART INVOLVEMENT	15,053	25,141	10,020	7,990	4,486	4,930
ARTHRITIS/ RHEUMATISM	11,634	7,385	3,723	1,894	1,687	2,989
HEARING IMPAIRMENT	10,161	8,216	4,655	2,089	2,098	2,919
ASTHMA, WITH OR WITHOUT HAYFEVER	8,803	4,468	11,632	4,007	1,609	4,923
DIABETES	3,405	5,816	3,725	2,373	1,792	1,480
MENTAL AND NERVOUS CONDITION	6,469	2,552	3,116	1,068	710	3,041
VISUAL IMPAIRMENT	3,526	3,146	1,829	1,256	799	1,460
MALIGNANT NEOPLASMS	2,954	1,152	1,119	223	304	309
CHRONIC & ALLERGIC SKIN CONDITIONS	9,596	5,208	4,014	2,294	1,622	6,036
CHRONIC SINUSITIS	12,240	5,029	3,113	1,297	603	5,436
HAYFEVER WITHOUT ASTHMA	16,771	11,346	6,771	2,385	1,586	6,934
STOMACH ULCER	2,281	1,378	1,039	489	391	670
BRONCHITIS/ EMPHYSEMA	4,946	1,927	4,101	953	621	2,911
BENIGN & UNSPECIFIED NEOPLASMS	2,328	1,454	537	539	270	1,412
HEMORRHOIDS	7,204	4,211	1,619	644	592	2,701
THYROID/GOITER	1,592	2,023	364	502	267	703
VARICOSE VEINS	4,529	2,820	1,329	614	308	1,348
GOUT	1,163	3,454	1,459	2,005	1,341	650

TABLE 14
NUMBER OF CHRONIC CONDITIONS PER 1,000 PERSONS PER YEAR
BY ETHNICITY, 1982

SELECTED CHRONIC CONDITION	CAUCASIAN	JAPANESE	HAWAIIAN PT. HAWAIIAN	FILIPINO	CHINESE	OTHER & UNKNOWN
HEART CONDITION	29.6	29.8	22.2	13.5	29.8	10.9
IMPAIRMENTS OF BACK OR SPINE	66.7	55.3	38.4	23.2	41.3	32.3
HYPERTENSION WITHOUT HEART INVOLVEMENT	61.6	117.8	54.8	70.6	105.4	30.8
ARTHRITIS/ RHEUMATISM	47.6	34.6	20.4	16.7	39.6	18.7
HEARING IMPAIRMENT	41.6	38.5	25.5	18.5	49.3	18.3
ASTHMA, WITH OR WITHOUT HAYFEVER	36.0	20.9	63.6	35.4	37.8	30.8
DIABETES	13.9	27.3	20.4	21.0	42.1	9.3
MENTAL AND NERVOUS CONDITION	26.5	12.0	17.0	9.4	16.7	19.0
VISUAL IMPAIRMENT	14.4	14.7	10.0	11.1	18.8	9.1
MALIGNANT NEOPLASMS	12.1	5.4	6.1	2.0	7.1	1.9
CHRONIC & ALLERGIC SKIN CONDITIONS	39.3	24.4	22.0	20.3	38.1	37.8
CHRONIC SINUSITIS	50.1	23.6	17.0	11.5	14.2	34.0
HAYFEVER WITHOUT ASTHMA	68.7	53.2	37.0	21.1	37.3	43.4
STOMACH ULCER	9.3	6.5	5.7	4.3	9.2	4.2
BRONCHITIS/ EMPHYSEMA	20.2	9.0	22.4	8.4	14.6	18.2
BENIGN & UNSPECIFIED NEOPLASMS	9.5	6.8	2.9	4.8	6.3	8.8
HEMORRHOIDS	29.5	19.7	8.9	5.7	13.9	16.9
THYROID/GOITER	6.5	9.5	2.0	4.4	6.3	4.4
VARICOSE VEINS	18.5	13.2	7.3	5.4	7.2	8.4
GOUT	4.8	16.2	8.0	17.7	31.5	4.1

TABLE 15
NUMBER OF CHRONIC CONDITIONS PER 1,000
PERSONS PER YEAR (1977-1982)

	1977	1978	1979	1980	1981	1982
HEART CONDITIONS	20.3	19.1	20.9	20.1	21.1	23.2
IMP.-BACK/SPINE	33.9	33.2	34.6	32.4	50.2	46.7
HBP W/O HEART INV.	63.1	65.9	66.8	75.6	67.4	70.7
ARTHRITIS/ RHEUMATISM	23.3	26.5	26.2	27.8	26.7	30.7
HEARING IMPAIRMENT	20.7	26.8	26.1	26.2	32.1	31.5
ASTHMA W OR W/O HAY FEVER	33.3	38.4	36.5	29.8	30.1	37.1
DIABETES	22.9	22.4	22.1	23.0	18.9	19.4
MENTAL AND NERVOUS CONDITIONS	12.5	12.8	9.6	9.4	13.3	17.7
VISUAL IMPAIRMENT	10.2	10.9	10.5	12.3	12.3	12.6
MALIGNANT NEOPLASMS	5.7	6.1	6.1	5.9	6.5	6.3
CHRONIC AND ALLERGIC SKIN	24.3	24.3	23.9	18.8	25.8	30.1
CHRONIC SINUSITIS	24.7	23.4	20.0	20.6	34.8	29.0
HAY FEVER W/O ASTHMA	50.4	51.3	54.4	54.1	50.1	47.9
STOMACH ULCER	9.2	9.4	8.3	8.1	9.5	6.5
BRONCHITIS/ EMPHYSEMA	11.4	10.0	9.2	10.4	14.0	16.2
BENIGN AND UNSPEC. NEOPLASMS	7.6	6.6	6.8	5.9	6.6	6.8
HEMORRHOIDS	15.0	15.2	12.3	15.1	17.0	17.7
THYROID/GOITER	5.9	5.3	5.2	5.8	5.7	5.7
VARICOSE VEINS	6.5	5.0	4.2	3.6	7.6	11.5
GOUT.	11.3	12.2	11.3	10.7	10.3	10.5

TABLE 16
DISTRIBUTION OF PERSONS BY ACTIVITY LIMITATION STATUS
DUE TO CHRONIC CONDITIONS ACCORDING TO SEX AND AGE, 1982 a/, b/

BOTH SEXES	TOTAL POPULATION	NO LIMITATION OF ACTIVITY	LIMITED BUT NOT IN MAJOR ACTIVITY	LIMITED IN AMOUNT OR KIND OF ACTIVITY	UNABLE TO CARRY ON MAJOR ACTIVITY
ALL AGES	363,609	289,308	27,726	22,234	13,224
UNDER 17 YEARS	51,144	45,152	2,067	1,998	122
17 - 44 YEARS	153,906	131,086	9,464	6,239	2,531
45 - 64 YEARS	103,440	80,186	9,393	6,776	4,545
65 YEARS AND OVER	55,119	32,883	6,802	7,222	6,027
MALE					
ALL AGES	182,748	145,625	12,473	10,914	8,155
UNDER 17 YEARS	29,268	25,421	1,433	1,219	---
17 - 44 YEARS	74,094	63,385	3,578	3,390	1,844
45 - 64 YEARS	51,668	39,710	4,484	2,882	3,124
65 YEARS AND OVER	27,719	17,110	2,977	3,423	3,187
FEMALE					
ALL AGES	180,861	143,682	15,253	11,320	5,069
UNDER 17 YEARS	21,876	19,731	634	779	122
17 - 44 YEARS	79,812	67,701	5,885	2,848	687
45 - 64 YEARS	51,772	40,477	4,909	3,894	1,421
65 YEARS AND OVER	27,400	15,773	3,825	3,799	2,839
	PERCENT DISTRIBUTION				
BOTH SEXES					
ALL AGES	100.00	79.6	7.6	6.1	3.6
UNDER 17 YEARS	100.0	88.3	4.0	3.9	0.2
17 - 44 YEARS	100.0	85.2	6.1	4.1	1.6
45 - 64 YEARS	100.0	77.5	9.1	6.6	4.4
65 YEARS AND OVER	100.0	59.7	12.3	13.1	10.9
MALE					
ALL AGES	100.0	79.7	6.8	6.0	4.5
UNDER 17 YEARS	100.0	86.9	4.9	4.2	---
17 - 44 YEARS	100.0	85.5	4.8	4.6	2.5
45 - 64 YEARS	100.0	76.9	8.7	5.6	6.0
65 YEARS AND OVER	100.0	61.7	10.7	12.3	11.5
FEMALE					
ALL AGES	100.0	79.4	8.4	6.3	2.8
UNDER 17 YEARS	100.0	90.2	2.9	3.6	0.6
17 - 44 YEARS	100.0	84.8	7.4	3.6	0.9
45 - 64 YEARS	100.0	78.2	9.5	7.5	2.7
65 YEARS AND OVER	100.0	57.6	14.0	13.9	10.4

a/ Excludes unknown activity limitation
b/ Numbers may not add up due to rounding.

TABLE 17
DISTRIBUTION OF PERSONS BY ACTIVITY LIMITATION STATUS
DUE TO CHRONIC CONDITIONS ACCORDING TO FAMILY INCOME AND AGE, 1982*

ALL INCOMES	TOTAL POPULATION	NO LIMITATION OF ACTIVITY	LIMITED BUT NOT IN MAJOR ACTIVITY	LIMITED IN AMOUNT OR KIND OF ACTIVITY	UNABLE TO CARRY ON MAJOR ACTIVITY
ALL AGES	363,609	289,308	27,726	22,234	13,224
UNDER 17 YEARS	51,144	45,152	2,067	1,998	122
17 - 44 YEARS	153,906	131,086	9,464	6,239	2,531
45 - 64 YEARS	103,440	80,186	9,393	6,776	4,545
65 YEARS AND OVER	55,119	32,883	6,802	7,222	6,027
Under $5,000					
ALL AGES	14,311	8,146	2,108	2,268	1,540
UNDER 17 YEARS	1,557	1,313	165	78	---
17 - 44 YEARS	5,723	3,705	1,084	705	152
45 - 64 YEARS	3,304	1,484	386	415	954
65 YEARS AND OVER	3,728	1,643	473	1,069	435
$5,000 - $9,999					
ALL AGES	38,308	27,706	3,535	3,850	2,354
UNDER 17 YEARS	5,410	4,823	414	31	---
17 - 44 YEARS	17,031	13,046	1,515	1,326	698
45 - 64 YEARS	6,793	3,651	754	1,432	823
65 YEARS AND OVER	9,074	6,186	852	1,061	834
$10,000 - $14,999					
ALL AGES	45,108	35,386	3,652	2,868	2,267
UNDER 17 YEARS	6,031	5,277	224	390	---
17 - 44 YEARS	20,263	17,039	1,524	593	558
45 - 64 YEARS	10,116	7,655	805	786	713
65 YEARS AND OVER	8,698	5,415	1,099	1,098	996
$15,000 - $19,999					
ALL AGES	37,660	30,414	2,503	1,843	1,782
UNDER 17 YEARS	5,618	4,903	111	236	---
17 - 44 YEARS	17,148	15,141	798	308	298
45 - 64 YEARS	8,888	6,630	1,053	643	545
65 YEARS AND OVER	6,006	3,740	541	656	939
$20,000 - $24,999					
ALL AGES	34,696	29,549	2,807	1,240	614
UNDER 17 YEARS	4,921	4,453	231	119	---
17 - 44 YEARS	14,780	13,442	789	287	131
45 - 64 YEARS	10,099	8,251	1,006	478	321
65 YEARS AND OVER	4,896	3,403	781	356	163
$25,000 AND OVER					
ALL AGES	147,289	124,653	9,775	6,660	3,463
UNDER 17 YEARS	20,789	18,533	724	781	122
17 - 44 YEARS	62,083	55,989	2,755	1,998	383
45 - 64 YEARS	50,897	43,128	4,137	2,041	589
65 YEARS AND OVER	13,521	7,003	2,159	1,640	2,369

*Numbers may not add up due to rounding.

TABLE 18
PERCENT DISTRIBUTION OF PERSONS BY ACTIVITY LIMITATION STATUS DUE TO CHRONIC CONDITIONS ACCORDING TO FAMILY INCOME AND AGE, 1982

ALL INCOMES	TOTAL POPULATION	NO LIMITATION OF ACTIVITY	LIMITED BUT NOT IN MAJOR ACTIVITY	LIMITED IN AMOUNT OR KIND OF ACTIVITY	UNABLE TO CARRY ON MAJOR ACTIVITY
ALL AGES	100.0	79.6	7.6	6.1	3.6
UNDER 17 YEARS	100.0	88.3	4.0	3.9	0.2
17 - 44 YEARS	100.0	85.2	6.1	4.1	1.6
45 - 64 YEARS	100.0	77.5	9.1	6.6	4.4
65 YEARS AND OVER	100.0	59.7	12.3	13.1	10.9
Under $5,000					
ALL AGES	100.0	56.9	14.7	15.8	10.8
UNDER 17 YEARS	100.0	84.4	10.6	5.0	---
17 - 44 YEARS	100.0	64.7	18.9	12.3	2.6
45 - 64 YEARS	100.0	44.9	11.7	12.6	28.9
65 YEARS AND OVER	100.0	44.1	12.7	28.7	11.7
$5,000 - $9,999					
ALL AGES	100.0	72.3	9.2	10.0	6.1
UNDER 17 YEARS	100.0	89.1	7.7	0.6	---
17 - 44 YEARS	100.0	76.6	8.9	7.8	4.1
45 - 64 YEARS	100.0	53.8	11.1	21.1	12.1
65 YEARS AND OVER	100.0	68.2	9.4	11.7	9.2
$10,000 - $14,999					
ALL AGES	100.0	78.4	8.1	6.4	5.0
UNDER 17 YEARS	100.0	87.5	3.7	6.5	---
17 - 44 YEARS	100.0	84.1	7.5	2.9	2.8
45 - 64 YEARS	100.0	75.7	8.0	7.8	7.0
65 YEARS AND OVER	100.0	62.3	12.6	12.6	11.5
$15,000 - $19,999					
ALL AGES	100.0	80.8	6.6	4.9	4.7
UNDER 17 YEARS	100.0	87.3	2.0	4.2	---
17 - 44 YEARS	100.0	88.3	4.7	1.8	1.7
45 - 64 YEARS	100.0	74.6	11.9	7.2	6.1
65 YEARS AND OVER	100.0	62.3	9.0	10.9	15.6
$20,000 - $24,999					
ALL AGES	100.0	85.2	8.1	3.6	1.8
UNDER 17 YEARS	100.0	90.5	4.7	2.4	---
17 - 44 YEARS	100.0	90.9	5.3	1.9	0.9
45 - 64 YEARS	100.0	81.7	10.0	4.7	3.2
65 YEARS AND OVER	100.0	69.5	15.9	7.3	3.3
$25,000 AND OVER					
ALL AGES	100.0	84.6	6.6	4.5	2.4
UNDER 17 YEARS	100.0	89.1	3.5	4.7	0.6
17 - 44 YEARS	100.0	90.2	4.4	3.2	0.6
45 - 64 YEARS	100.0	84.7	8.1	4.0	1.2
65 YEARS AND OVER	100.0	51.8	16.0	12.1	17.5

TABLE 19
INCIDENCE OF ACUTE CONDITIONS PER YEAR BY GEOGRAPHIC AREA, 1982*

	STATE	OAHU	EAST HON.	WEST HON.	CENTRAL OAHU	WAIANAE	WIND-WARD	KAUAI	MAUI COUNTY	HAWAII
ALL ACUTE CONDITIONS	2,141,939	1,761,708	509,852	143,875	736,434	55,554	315,992	50,934	176,104	153,193
INFECTIVE PARASITIC DISEASES	147,634	125,360	29,453	9,684	65,264	5,112	15,847	2,647	11,200	8,426
RESPIRATORY CONDITIONS	1,494,008	1,243,572	375,964	103,085	526,976	43,778	193,769	29,375	122,422	98,640
UPPER RESPIRATORY	1,012,298	851,735	271,051	75,238	370,888	23,285	111,274	17,069	69,048	74,447
INFLUENZA	390,103	312,247	85,865	24,398	113,048	15,906	73,030	9,161	46,481	22,214
OTHER RESPIRATORY CONDITIONS	91,607	79,590	19,048	3,449	43,040	4,588	9,466	3,145	6,893	1,979
DIGESTIVE SYSTEM CONDITIONS	31,243	20,041	5,527	2,134	8,804	1,073	2,503	1,685	2,220	7,297
INJURIES	202,739	161,927	46,075	11,749	57,929	1,016	45,157	7,099	20,484	13,229
ALL OTHER ACUTE CONDITIONS	266,315	210,808	52,834	17,224	77,460	4,574	58,716	10,128	19,778	25,601

*Numbers may not add up due to rounding.

TABLE 20
NUMBER OF ACUTE CONDITIONS PER 100 PERSONS PER YEAR BY GEOGRAPHIC AREA, 1982

	STATE	OAHU	EAST HON.	WEST HON.	CENTRAL OAHU	WAIANAE	WIND-WARD	KAUAI	MAUI COUNTY	HAWAII
ALL ACUTE CONDITIONS	224.0	237.9	221.0	173.3	266.6	174.4	266.6	126.1	223.0	158.9
INFECTIVE PARASITIC DISEASES	15.4	16.9	12.8	11.7	23.6	16.0	13.4	6.6	14.2	8.7
RESPIRATORY CONDITIONS	156.3	168.0	162.9	124.2	190.8	137.4	163.5	72.7	155.0	102.3
UPPER RESPIRATORY	105.9	115.0	117.5	90.6	134.3	73.1	93.9	42.3	87.4	77.2
INFLUENZA	40.8	42.2	37.2	29.4	40.9	49.9	61.6	22.7	58.9	23.0
OTHER RESPIRATORY CONDITIONS	9.6	10.7	8.3	4.2	15.6	14.4	8.0	7.8	8.7	2.1
DIGESTIVE SYSTEM CONDITIONS	3.3	2.7	2.4	2.6	3.2	3.4	2.1	4.2	2.8	7.6
INJURIES	21.2	21.9	20.0	14.2	21.0	3.2	38.1	17.6	25.9	13.7
ALL OTHER ACUTE CONDITIONS	27.9	28.5	22.9	20.7	28.0	14.4	49.5	25.1	25.0	26.6

TABLE 21
INCIDENCE OF ACUTE CONDITIONS IN THE PAST YEAR BY AGE, 1982*

	ALL AGES	UNDER 17 YEARS	17 - 44 YEARS	45 - 64 YEARS	65 YEARS AND OVER
ALL ACUTE CONDITIONS	2,141,939	757,481	1,000,826	261,708	121,924
INFECTIVE PARASITIC DISEASES	147,634	71,065	59,347	12,301	4,920
RESPIRATORY CONDITIONS	1,494,008	535,609	685,528	188,450	84,421
UPPER RESPIRATORY	1,012,298	400,176	421,896	127,996	62,231
INFLUENZA	390,103	104,736	224,891	43,594	16,883
OTHER RESPIRATORY CONDITIONS	91,607	30,697	38,741	16,861	5,308
DIGESTIVE SYSTEM CONDITIONS	31,243	2,515	19,736	5,267	3,725
INJURIES	202,739	46,241	119,084	26,663	10,751
ALL OTHER ACUTE CONDITIONS	266,315	102,050	117,131	29,027	18,107

*Numbers may not add up due to rounding.

TABLE 22
NUMBER OF ACUTE CONDITIONS PER 100 PERSONS PER YEAR BY AGE, 1982

	ALL AGES	UNDER 17 YEARS	17 - 44 YEARS	45 - 64 YEARS	65 YEARS AND OVER
ALL ACUTE CONDITIONS	224.0	283.1	233.3	143.7	157.3
INFECTIVE PARASITIC DISEASES	15.4	26.6	13.8	6.8	6.3
RESPIRATORY CONDITIONS	156.3	200.2	159.8	103.4	108.9
UPPER RESPIRATORY	105.9	149.6	98.4	70.3	80.3
INFLUENZA	40.8	39.2	52.4	23.9	21.8
OTHER RESPIRATORY CONDITIONS	9.6	11.5	9.0	9.3	6.8
DIGESTIVE SYSTEM CONDITIONS	3.3	0.9	4.6	2.9	4.8
INJURIES	21.2	17.3	27.8	14.6	13.9
ALL OTHER ACUTE CONDITIONS	27.9	38.1	27.3	15.9	23.4

TABLE 23
INCIDENCE OF ACUTE CONDITIONS FOR MALES IN THE PAST YEAR
BY AGE, 1982 *

	ALL AGES	UNDER 17 YEARS	17 - 44 YEARS	45 - 64 YEARS	65 YEARS AND OVER
ALL ACUTE CONDITIONS	1,045,212	409,228	469,674	113,546	52,764
INFECTIVE PARASITIC DISEASES	71,479	36,120	26,849	4,806	3,704
RESPIRATORY CONDITIONS	712,020	282,977	311,602	77,562	39,880
UPPER RESPIRATORY	491,498	208,690	195,930	56,578	30,301
INFLUENZA	180,900	57,200	101,860	14,146	7,694
OTHER RESPIRATORY CONDITIONS	39,622	17,087	13,812	6,839	1,884
DIGESTIVE SYSTEM CONDITIONS	18,560	1,254	12,745	2,478	2,083
INJURIES	127,555	33,608	78,893	12,839	2,215
ALL OTHER ACUTE CONDITIONS	115,597	55,268	39,586	15,862	4,882

*Numbers may not add up due to rounding.

TABLE 24
NUMBER OF ACUTE CONDITIONS PER 100 MALES PER YEAR
BY AGE, 1982

	ALL AGES	UNDER 17 YEARS	17 - 44 YEARS	45 - 64 YEARS	65 YEARS AND OVER
ALL ACUTE CONDITIONS	218.0	295.7	220.0	129.4	132.7
INFECTIVE PARASITIC DISEASES	14.9	26.1	12.6	5.5	9.3
RESPIRATORY CONDITIONS	148.5	204.5	146.0	88.4	100.3
UPPER RESPIRATORY	102.5	150.8	91.8	64.5	76.2
INFLUENZA	37.7	41.3	47.7	16.1	19.3
OTHER RESPIRATORY CONDITIONS	8.3	12.3	6.5	7.8	4.7
DIGESTIVE SYSTEM CONDITIONS	3.9	0.9	6.0	2.8	5.2
INJURIES	26.6	24.3	37.0	14.6	5.6
ALL OTHER ACUTE CONDITIONS	24.1	39.9	18.5	18.1	12.3

TABLE 25
INCIDENCE OF ACUTE CONDITIONS FOR FEMALES IN THE PAST YEAR
BY AGE, 1982 *

	ALL AGES	UNDER 17 YEARS	17 - 44 YEARS	45 - 64 YEARS	65 YEARS AND OVER
ALL ACUTE CONDITIONS	1,096,727	348,253	531,152	148,162	69,160
INFECTIVE PARASITIC DISEASES	76,154	34,945	32,498	7,495	1,216
RESPIRATORY CONDITIONS	781,988	252,632	373,926	110,888	44,542
UPPER RESPIRATORY	520,800	191,486	225,966	71,418	31,930
INFLUENZA	209,203	47,536	123,031	29,448	9,188
OTHER RESPIRATORY CONDITIONS	51,985	13,610	24,929	10,022	3,424
DIGESTIVE SYSTEM CONDITIONS	12,683	1,261	6,991	2,789	1,642
INJURIES	75,184	12,632	40,192	13,824	8,536
ALL OTHER ACUTE CONDITIONS	150,718	46,782	77,545	13,165	13,225

*Numbers may not add up due to rounding.

TABLE 26
NUMBER OF ACUTE CONDITIONS PER 100 FEMALES PER YEAR
BY AGE, 1982

	ALL AGES	UNDER 17 YEARS	17 - 44 YEARS	45 - 64 YEARS	65 YEARS AND OVER
ALL ACUTE CONDITIONS	230.1	269.7	246.6	156.9	183.3
INFECTIVE PARASITIC DISEASES	16.0	27.1	15.1	7.9	3.2
RESPIRATORY CONDITIONS	164.0	195.6	173.6	117.4	118.1
UPPER RESPIRATORY	109.2	148.3	104.9	75.6	84.6
INFLUENZA	43.9	36.8	57.1	31.2	24.4
OTHER RESPIRATORY CONDITIONS	10.9	10.5	11.6	10.6	9.1
DIGESTIVE SYSTEM CONDITIONS	2.7	1.0	3.2	3.0	4.4
INJURIES	15.8	9.8	18.7	14.6	22.6
ALL OTHER ACUTE CONDITIONS	31.6	36.2	36.0	13.9	35.1

TABLE 27
INCIDENCE OF ACUTE CONDITIONS IN THE PAST YEAR BY ETHNICITY, 1982

	CAUCASION	JAPANESE	HAWAIIAN PT. HAWAIIAN	FILIPINO	CHINESE	OTHER & UNKNOWN
ALL ACUTE CONDITIONS	632,153	380,873	450,194	187,176	88,494	403,139
INFECTIVE PARASITIC DISEASES	42,743	16,895	30,916	14,944	6,281	35,856
RESPIRATORY CONDITIONS	429,866	275,263	320,563	137,281	66,157	264,877
UPPER RESPIRATORY	273,624	194,112	208,027	95,052	57,191	184,292
INFLUENZA	138,118	60,964	91,309	26,434	7,903	65,376
OTHER RESPIRATORY CONDITIONS	18,125	20,188	21,227	15,796	1,063	15,209
DIGESTIVE SYSTEM CONDITIONS	8,726	6,695	7,061	5,160	---	3,601
INJURIES	62,221	39,403	40,292	12,301	5,971	42,550
ALL OTHER ACUTE CONDITIONS	88,596	42,617	51,272	17,490	10,085	56,255

TABLE 28
NUMBER OF ACUTE CONDITIONS PER 100 PERSONS PER YEAR BY ETHNICITY, 1982

	CAUCASION	JAPANESE	HAWAIIAN PT. HAWAIIAN	FILIPINO	CHINESE	OTHER & UNKNOWN
ALL ACUTE CONDITIONS	258.8	178.5	246.1	165.3	208.0	252.2
INFECTIVE PARASITIC DISEASES	17.5	7.9	16.9	13.2	14.8	22.4
RESPIRATORY CONDITIONS	176.0	129.0	175.3	121.3	155.5	165.7
UPPER RESPIRATORY	112.0	91.0	113.8	84.0	134.4	115.3
INFLUENZA	56.6	28.6	49.9	23.3	18.6	40.9
OTHER RESPIRATORY CONDITIONS	7.4	9.5	11.6	14.0	2.5	9.5
DIGESTIVE SYSTEM CONDITIONS	3.6	3.1	3.9	4.6	---	2.3
INJURIES	25.5	18.5	22.0	10.9	14.0	26.6
ALL OTHER ACUTE CONDITIONS	36.3	20.0	28.0	15.4	23.7	35.2

TABLE 29
NUMBER OF ACUTE CONDITIONS PER 100
PERSONS PER YEAR (1977-1982)

	1977	1978	1979	1980	1981	1982
ALL ACUTE CONDITIONS	164.4	173.8	209.2	168.8	204.8	224.0
INFECTIVE PARASITIC DISEASES	14.6	10.8	14.1	10.2	16.9	15.4
RESPIRATORY CONDITIONS	104.7	118.8	138.8	114.0	141.4	156.3
UPPER RESPIRATORY	69.7	73.0	93.7	80.0	99.6	105.9
INFLUENZA	25.2	37.3	39.4	30.4	35.7	40.8
OTHER	9.8	8.5	5.7	3.6	6.0	9.6
DIGESTIVE SYSTEM CONDITIONS	3.7	3.7	3.7	3.2	3.7	3.3
INJURIES	20.0	19.9	27.8	21.1	18.2	21.2
ALL OTHER ACUTE CONDITIONS	21.4	20.6	24.8	20.3	24.5	27.9

TABLE 30
NUMBER OF RESTRICTED DAYS FOR PERSONS IN THE PAST 12 MONTHS
BY GEOGRAPHIC AREA AND AGE, 1982 *

	ALL AGES	UNDER 17	17-44 YEARS	45-64 YEARS	65 & OVER
STATE	12,383,934	2,183,150	5,328,353	2,756,780	2,115,650
OAHU	9,177,910	1,719,588	4,181,716	1,990,298	1,286,308
EAST HONOLULU	3,021,112	210,612	1,473,281	768,574	568,645
WEST HONOLULU	1,139,509	174,830	387,744	310,228	266,707
CENTRAL OAHU	2,334,358	774,082	1,121,252	317,306	121,717
WAIANAE	836,380	235,465	276,550	219,103	105,262
WINDWARD	1,846,552	324,599	922,889	375,088	223,976
KAUAI	291,138	59,495	106,586	43,549	81,508
MAUI COUNTY	1,761,878	243,043	670,607	388,933	459,295
HAWAII	1,153,008	161,024	369,444	334,000	288,540

*Numbers may not add up due to rounding.

TABLE 31
AVERAGE NUMBER OF RESTRICTED DAYS PER PERSON PER YEAR
IN THE PAST 12 MONTHS BY GEOGRAPHIC AREA AND AGE, 1982

	ALL AGES	UNDER 17	17-44 YEARS	45-64 YEARS	65 & OVER
STATE	13.0	8.2	12.4	15.1	27.3
OAHU	12.4	8.4	12.3	14.3	23.3
EAST HONOLULU	13.1	5.1	13.7	13.6	21.9
WEST HONOLULU	13.7	7.8	12.0	17.2	26.1
CENTRAL OAHU	8.5	8.4	8.4	8.1	10.8
WAIANAE	26.3	19.2	20.8	47.3	64.6
WINDWARD	15.6	8.8	17.0	17.7	36.8
KAUAI	7.2	5.0	6.7	5.4	18.0
MAUI COUNTY	22.3	11.0	20.1	25.1	58.2
HAWAII	12.0	5.6	9.6	17.4	29.2

TABLE 32
NUMBER OF BED DAYS FOR PERSONS IN THE PAST 12 MONTHS
BY GEOGRAPHIC AREA AND AGE, 1982 *

	ALL AGES	UNDER 17	17-44 YEARS	45-64 YEARS	65 & OVER
STATE	4,272,937	1,009,856	1,810,672	870,456	581,953
OAHU	3,106,634	793,638	1,358,150	604,390	350,456
EAST HONOLULU	839,330	95,741	442,430	191,902	109,258
WEST HONOLULU	313,310	52,267	92,821	84,389	83,833
CENTRAL OAHU	1,073,910	399,050	495,821	141,844	37,195
WAIANAE	383,332	128,182	117,280	98,557	39,313
WINDWARD	496,752	118,398	209,798	87,698	80,857
KAUAI	110,956	23,455	47,124	13,393	26,983
MAUI COUNTY	506,503	85,259	253,416	93,541	74,287
HAWAII	548,844	107,504	151,981	159,132	130,226

*Numbers may not add up due to rounding.

TABLE 33
AVERAGE NUMBER OF BED DAYS PER PERSON PER YEAR
IN THE PAST 12 MONTHS BY GEOGRAPHIC AREA AND AGE, 1982

	ALL AGES	UNDER 17	17-44 YEARS	45-64 YEARS	65 & OVER
STATE	4.5	3.8	4.2	4.8	7.5
OAHU	4.2	3.9	4.0	4.3	6.4
EAST HONOLULU	3.6	2.3	4.1	3.4	4.2
WEST HONOLULU	3.8	2.3	2.9	4.7	8.2
CENTRAL OAHU	3.9	4.3	3.7	3.6	3.3
WAIANAE	12.0	10.4	8.8	21.3	24.1
WINDWARD	4.2	3.2	3.9	4.1	13.3
KAUAI	2.8	2.0	3.0	1.7	6.0
MAUI COUNTY	6.4	3.8	7.6	6.0	9.4
HAWAII	5.7	3.7	4.0	8.3	13.2

TABLE 34
NUMBER OF WORK DAYS LOST FOR PERSONS 17 YEARS OF AGE AND OLDER
IN THE PAST 12 MONTHS BY GEOGRAPHIC AREA AND AGE, 1982 *

	17 YEARS AND OVER	17-44 YEARS	45 YEARS & OVER
STATE	2,090,050	1,423,348	666,702
OAHU	1,654,028	1,116,613	537,415
EAST HONOLULU	750,029	469,968	280,061
WEST HONOLULU	162,780	48,522	114,258
CENTRAL OAHU	330,253	276,606	53,647
WAIANAE	39,344	34,480	4,865
WINDWARD	371,622	287,038	84,584
KAUAI	64,208	44,681	19,528
MAUI COUNTY	188,698	145,375	43,322
HAWAII	183,115	116,678	66,437

*Numbers may not add up due to rounding.

TABLE 35
AVERAGE NUMBER OF WORK DAYS LOST PER PERSON 17 YEARS OF AGE AND OLDER PER YEAR IN THE PAST 12 MONTHS BY GEOGRAPHIC AREA AND AGE, 1982

	17 YEARS AND OVER	17-44 YEARS	45 YEARS & OVER
STATE	3.0	3.3	2.6
OAHU	3.1	3.3	2.8
EAST HONOLULU	4.0	4.4	3.4
WEST HONOLULU	2.7	1.5	4.1
CENTRAL OAHU	1.8	2.1	1.1
WAIANAE	2.0	2.6	0.8
WINDWARD	4.6	5.3	3.1
KAUAI	2.3	2.8	1.6
MAUI COUNTY	3.3	4.4	1.9
HAWAII	2.7	3.0	2.3

TABLE 36
TOTAL NUMBER AND AVERAGE SCHOOL DAYS LOST PER PERSON 6-16 YEARS OF AGE
IN THE PAST 12 MONTHS BY GEOGRAPHIC AREA AND AGE, 1982 *

	TOTAL	AVERAGE
STATE	609,665	3.6
OAHU	463,171	3.5
EAST HONOLULU	70,164	2.5
WEST HONOLULU	52,002	3.6
CENTRAL OAHU	189,500	3.3
WAIANAE	49,276	6.7
WINDWARD	102,229	4.3
KAUAI	20,752	2.7
MAUI COUNTY	78,542	5.5
HAWAII	47,200	2.6

*Numbers may not add up due to rounding.

HAWAII STATE
HEALTH PLANNING
AND
DEVELOPMENT AGENCY

HAWAII STATE HEALTH PLANNING AND DEVELOPMENT AGENCY

Annual Summary of Acute, Long Term Care and Specialty Hospital Utilization
by County, Hawaii 1977-1982

Hawaii's State Health Planning and Development Agency (SHPDA) is an agency of state government, administratively attached to the State Department of Health. The Agency (SHPDA) works with the Hawaii Statewide Health Coordinating Council (HSHCC) and the eight Subarea Health Planning Councils (SACs) throughout the State. Authorized by the National Health Planning and Resources Development Act, the Agency was established in July, 1976 after amendments to Chapter 323D, Hawaii Revised Statutes. The Hawaii State Legislature appropriates funds for the Agency, to match the Federal funds provided by the Department of Health and Human Services.

One of the responsibilities of the Agency is to draft a state health plan. The Agency also staffs HSHCC and the eight SACs, and promotes the implementation of the Health Plan. The goals of the Agency's planning and development activities are:

1. Improve the health of the residents of the State.
2. Increase the accessibility, acceptability, availability, continuity and quality of health services provided them.
3. Contain increases in the cost of providing health services.
4. Prevent the unnecessary duplication of health resources.

The Agency collects information on the utilization of inpatient facilities in the State and prepares an annual summary. The 1977-78 data in this report were obtained by SHPDA directly from each of the inpatient facilities in the State. In 1979, SHPDA initiated a Quarterly Utilization Report which included daily census data from each facility for each type of bed. The 1977-81 facility data are complete. There are some facilities who have not yet returned their 1982 data.

Admissions

The number of admissions is defined as the number of inpatient admissions. A given person could be admitted more than once during a year. The critical care admissions are included in the categories shown. Data on the use rate of critical care beds is available by contacting SHPDA.

The number of admissions multipled by the average length of stay produces the total number of patient days.

Average Daily Census (ADC)

The average daily census provides the mean number of beds occupied during the year. The average daily census multiplied by 365 gives the total number of patient days per year. The average daily census divided by the bed capacity and multiplying by 100 gives the occupancy rate.

Occupancy Rates

As mentioned above, percentage occupancy can be computed by dividing the ADC by the number of licensed beds and multiplying by 100. This provides an idea of the proportion of bed capacity occupied on the average day. As with ADC, this will fluctuate from day to day and by type of bed and place. There are national standards which are felt to indicate optimal bed occupancy levels. If a hospital's occupancy is too high, it may not have adequate capacity to accept new patients. Also, some extra beds are always needed in order to allow for maintenance, etc. Usually high occupancy in long term care beds is more acceptable, i.e., above 95%, since there is less daily fluctuation in daily census. In acute care, particularly where patients are admitted on a non-scheduled basis, e.g., OB, CCU, etc., the optimal occupancy can be lower in order to permit unforseen admissions. For other types of acute beds, an occupancy of about 80-85% is acceptable because admissions can be scheduled if bed capacity is fully utilized on a given day.

In some instances, occupancy may run over 100% because of an overflow situation. This might occur if there are, for example, too many of a given type of patient who must be temporarily assigned to another bed type. Where occupancy rates are very high, this is an indication of an inadequate supply of that type of bed on a given island; where they are low, it is an indication of either an adequate supply or surplus of that type of bed on that island.

Average Length of Stay (ALOS)

The average length of stay is the average number of days patients remain in the facility per hospital stay. For acute care, this is computed by dividing the total patient days by the number of admissions. For long term care, this is computed dividing the patient days by the number of discharges. This is done because long term care patients remain in a facility for several years.

Length of stay can be thought of as an indicator of either efficiency or seriousness of patient's illness. Where facilities are able to discharge patients in a shorter time, they might be thought of as being more efficient. However, in some instance where patients remain out of a hospital until their condition is more serious or where outpatient care is encouraged for less serious conditions, patients admitted may be required to stay longer.

In addition, in the event that long term care patients are occupying acute beds because they cannot find long term care accommodations, this may tend to increase the acute length of stay--confusing the interpretation. It would be best if, when computing length of stay, waitlisted long term care patients could be omitted from the acute inpatient care data. This has not been done in these data.

TABLE 1
SHPDA RECOGNIZED ACUTE CARE BED CAPACITY
STATE OF HAWAII, 1982.

	Medical/ Surgical	Critical Care[a]	Obstetric	Pediatric	Neonatal ICU	Psych	Total
METROPOLITAN							
Kaiser	110	16	30	18	-	-	174
Kapiolani	68	10[b]	60	-	-	-	138
Children's	-	12[c]	-	64	12[d]	-	88
Kuakini	225	25	-	-	-	-	250
Queen's	374	22	25	35	-	50	506
St. Francis	230	22	-	4	-	-	256
Straub	136	16[e]	-	-	-	-	152
Subtotal	1143	129	115	121	12	50	1564
SUBURBAN							
Castle	69	8	14	-	-	10	101
Kahuku	10	2	3	-	-	-	15
Pearlridge[f]	26	-	2	4	-	-	32
Wahiawa	45	4	14	15	-	-	78
Subtotal	150	14	33	19	-	10	226
OAHU TOTAL	1293	137	148	140	12	60	1790
MILITARY							
Tripler	387	-	41	17	-	64	509[g]
HAWAII COUNTY							
Hilo	84	12	18	30	-	21	165
Honokaa	19	2	4	2	-	-	27
Ka'u	4	1	2	-	-	-	7
Kohala	6	-	4	-	-	-	10
Kona	29	6	8	2	-	8	53
Subtotal	142	21	36	34	-	29	262
MAUI COUNTY							
Maui Island							
Hana	4	-	-	-	-	-	4
Kula	4	-	-	-	-	-	4
Maui	87	8	21	12	-	14	142
Lanai Island							
Lanai	3	1	1	-	-	1	6
Molokai Island							
Molokai	8	-	4	2	-	1	15
Subtotal	106	9	26	14	-	16	171
KAUAI COUNTY							
Mahelona	-	-	-	-	-	9	9
Kauai Vet.	29	2	7	-	-	-	38
G.N. Wilcox	73	8	9	6	-	-	96
Subtotal	102	10	16	6	-	9	143
N.I. TOTAL	350	40	78	54	-	54	576
STATE TOTAL w/o Tripler	1643	177	226	194	12	114	2366
STATE TOTAL w/ Tripler	2030	177	267	211	12	178	2875

a. Includes coronary and intensive care units
b. Perinatal intensive care (PICU)
c. Includes six Ped ICU and Ped Intermediate Care
d. 12 neonatal isolettes
e. Changed to 23 effective November 1982
f. Closed as of November 1982
g. Tripler uses a total bed capacity of 561, which includes 52 nursery beds

SOURCE: SHPDA, Dec. 31, 1982

TABLE 2
SHPDA RECOGNIZED LONG TERM CARE BED CAPACITY
STATE OF HAWAII, 1932

	Skilled Nursing	Intermediate	SNF/ICF	Total
OAHU				
Ann Pearl	-	86	-	86
Arcadia	48	-	-	48
Beverly Manor	-	-	108	108
Castle	35	-	-	35
Convalescent Center	180	-	-	180
Crawford's	-	68	-	68
Hale Ho Aloha	-	73	-	73
Hale Malamalama	-	31	-	31
Hale Nani	-	-	232	232
Island Nursing	42	-	-	42
Kahanaola	-	-	42[a]	42
Kahuku	11	-	-	11
Kuakini	50	100	-	150
Leahi	98	42	(44)[b]	140 (184)
Leeward	-	50	-	50
Maluhia	-	-	150	150
Maunalani	101	-	-	101
Nuuanu Hale	75	-	-	75
Rehabilitation Hospital	-	14	-	14
St. Francis	52	-	-	52
Wahiawa	51	-	-	51
Total Oahu	743	464	532 (576)	1739 (1783)
HAWAII COUNTY				
Life Care Center	-	240	-	240
Hilo Hospital	36	72	-	108
Honokaa	8	-	-	8
Ka'u	8	-	-	8
Kohala	4	12	-	16
Kona	-	-	26	26
Total Hawaii County	56	324	26	406
MAUI COUNTY				
Hale Makua	-	124	120	244
Kula	-	-	94	94
Lanai	-	-	8	8
Molokai	-	-	12	12
Total Maui County	-	124	234	358
KAUAI COUNTY				
Kauai Veterans	6	-	-	6
Mahelona	-	-	56	56
G.N. Wilcox	-	-	59	59
Total Kauai County	6	-	115	121
STATE TOTAL	805	912	907 (951)	2624 (2668)

a. Effective June 1982 (January-June total was 40, 16 SNF + 24 ICF/SNF)
b. Pending

SOURCE: SHPDA, Dec. 31, 1982

TABLE 3
SHPDA RECOGNIZED SPECIALTY CARE BED CAPACITY
STATE OF HAWAII, 1982

	Psych	TB	MR	SNF	ICF/MR	Leprosy	Rehab	Children's Ortho	M/S	Total
Hale Mohalu	-	-	-	-	-	21	-	-	-	21
Hawaii State	219	-	-	-	-	-	-	-	-	219
Kalaupapa	-	-	-	-	-	24	-	-	-	24
Kula	-	-	8	-	-	-	-	-	-	8
Leahi	20	21	-	-	-	-	-	-	5	46
Mahelona	-	11	-	-	-	-	-	-	-	11
Rehab. Hospital	-	-	-	-	-	-	86	-	-	86
Shriner's	-	-	-	-	-	-	-	40	-	40
Waimano	-	-	-	-	426	-	-	-	-	426
GRAND TOTAL	239	32	8	-	426	45	86	40	5	881

SOURCE: SHPDA Bed Inventory, Dec. 31, 1982

TABLE 4
AVERAGE LENGTH OF STAY BY COUNTIES

	1977	1978	1979	1980	1981	1982*
LONG TERM CARE						
Oahu	302.7	318.4	400.4	362.8	390.5	
Hawaii	114.0	145.4	274.6	239.8	304.3	
Kauai	186.1	194.4	292.7	242.7	354.6	
Tri-Isle	499.6	461.1	354.0	384.4	347.1	
Maui	530.5	510.7	359.2	316.3	347.6	
Molokai	69.8	113.5	322.1	409.2	263.0	
Lanai	132.5	102.1	-	342.3	286.1	
TOTAL ACUTE						
Oahu w/o Tripler	6.3	6.4	6.7	6.5	6.5	6.6
Hawaii	4.2	4.1	3.9	3.8	4.7	
Kauai	6.3	5.7	5.7	5.2	4.7	
Tri-Isle	5.0	5.2	4.8	4.8	4.9	
Maui	5.2	5.4	5.0	4.9	4.8	
Molokai	2.8	2.9	2.3	2.7	2.5	
Lanai	4.1	2.3	1.6	2.3	4.9	
MEDICAL-SURGICAL						
Oahu w/o Tripler	7.1	7.3	8.0	7.7	7.4	7.6
Hawaii	4.5	4.7	4.4	4.2	4.5	
Kauai	6.8	6.2	7.5	5.6	7.4	
Tri-Isle	5.7	6.0	5.7	5.7	5.6	
Maui	5.9	6.2	5.9	5.8	5.7	
Molokai	3.3	3.5	2.1	3.0	3.1	
Lanai	5.0	2.6	1.7	2.5	2.5	
CRITICAL CARE (ICU/CCU)						
Oahu w/o Tripler	-	-	4.6	3.8	-	7.2
Hawaii	-	-	2.5	2.8	3.2	
Kauai	-	-	2.4	2.6	2.0	
Tri-Isle	-	-	3.3	3.1	3.0	
Maui	-	-	3.3	3.1	-	
OBSTETRIC						
Oahu w/o Tripler	3.2	3.0	3.1	3.3	3.3	3.2
Hawaii	3.0	2.5	2.5	2.5	2.4	
Kauai	2.9	2.8	2.6	2.5	2.5	
Tri-Isle	2.8	2.9	2.2	2.2	2.1	
Maui	2.9	3.0	2.3	2.2	2.2	
Molokai	2.0	1.9	1.8	1.9	1.6	
Lanai	2.3	1.3	1.5	2.0	-	
PEDIATRIC						
Oahu w/o Tripler	4.7	4.5	4.0	3.9	3.9	3.9
Hawaii	3.7	3.7	3.3	3.0	2.9	
Kauai	3.6	3.6	3.1	2.8	3.1	
Tri-Isle	3.0	2.4	3.6	3.1	3.0	
Maui	3.1	2.5	3.9	3.1	3.2	
Molokai	1.9	1.9	2.0	2.9	1.3	
PSYCHIATRIC						
Oahu w/o Tripler	9.4	9.8	10.8	11.4	10.0	11.4
Hawaii	6.0	6.3	6.6	7.8	8.1	
Kauai	18.6	15.3	11.4	9.1	7.8	
Tri-Isle	4.6	3.9	6.0	7.3	9.0	
Maui	4.7	4.0	6.1	7.7	9.4	
Molokai	1.4	1.9	1.4	1.6	1.0	
MENTALLY RETARDED (State)	1775.4	3350.2	2263.0	1449.1	1761.5	
SPECIALTY (State)	59.4	52.4	129.7	129.7	122.5	

SHPDA: May 1983

*1982 incomplete

TABLE 5
OCCUPANCY RATES BY COUNTIES

	1977	1978	1979	1980	1981	1982*
LONG TERM CARE						
Oahu	96.5	96.7	94.3	91.4	94.4	
Hawaii	96.1	85.2	87.3	92.9	95.3	
Kauai	99.2	102.2	98.7	94.8	101.2	
Tri-Isle	97.1	68.0	79.2	87.6	93.2	
Maui	99.0	67.7	79.6	89.2	94.4	
Molokai	70.8	91.7	117.7	46.6	78.3	
Lanai	61.8	62.6	21.8	81.8	68.8	
TOTAL ACUTE						
Oahu w/o Tripler	74.3	73.5	77.7	77.3	78.1	79.1
Hawaii	47.4	44.1	43.2	46.0	50.0	
Kauai	45.3	43.9	51.4	46.1	51.8	
Tri-Isle	57.3	56.4	51.0	57.7	54.9	
Maui	66.4	66.4	61.6	63.9	62.1	
Molokai	14.1	18.4	11.1	20.8	20.0	
Lanai	11.3	6.9	.6	2.5	1.7	
MEDICAL-SURGICAL						
Oahu w/o Tripler	76.1	74.8	81.3	81.6	81.7	83.0
Hawaii	50.4	46.1	53.1	57.8	63.3	
Kauai	45.2	42.3	53.9	49.8	58.6	
Tri-Isle	62.4	61.2	63.0	76.0	70.4	
Maui	71.2	71.7	78.9	82.6	79.3	
Molokai	15.3	20.2	10.8	27.5	28.8	
Lanai	13.8	8.8	.9	3.5	3.3	
CRITICAL CARE (ICU/CCU)						
Oahu w/o Tripler	-	72.4	67.4	53.3	68.5	80.0
Hawaii	-	35.7	41.6	39.6	41.9	
Kauai	-	36.8	29.9	27.9	6.0	
Tri-Isle	-	45.3	50.8	51.9	57.5	
Maui	-	45.3	57.1	58.4	57.5	
OBSTETRICS						
Oahu w/o Tripler	75.3	74.8	69.8	75.9	76.3	76.8
Hawaii	41.5	41.1	35.6	37.7	37.8	
Kauai	40.4	44.9	47.7	41.8	40.6	
Tri-Isle	31.9	32.3	29.8	28.2	28.9	
Maui	33.2	33.7	31.7	32.3	33.3	
Molokai	25.1	29.0	25.0	12.9	12.5	
Lanai	12.6	6.3	.8	4.4	-	
PEDIATRICS						
Oahu w/o Tripler	49.6	52.0	43.4	41.1	46.9	47.8
Hawaii	23.0	27.3	21.6	18.8	18.5	
Kauai	-	72.8	55.8	40.1	48.3	
Tri-Isle	46.6	39.7	23.5	25.4	25.7	
Maui	88.2	65.2	28.9	26.7	25.8	
Molokai	6.3	7.8	7.5	17.9	10.0	
PSYCHIATRIC						
Oahu w/o Tripler	101.4	102.1	119.7	114.7	103.0	90.5
Hawaii	135.3	67.7	31.7	35.9	41.7	
Kauai	67.4	47.7	51.4	36.6	46.7	
Tri-Isle	86.3	89.8	26.7	20.0	21.9	
Maui	128.5	176.2	30.3	22.5	24.3	
Molokai	1.9	6.9	2.7	4.9	2.0	

SHPDA: May 1983

*1982 incomplete

TABLE 6
AVERAGE DAILY CENSUS BY COUNTIES

	1977	1978	1979	1980	1981	1982*
LONG TERM CARE						
Oahu	1414.1	1487.3	1499.7	1591.1	1644.2	
Hawaii	293.9	305.0	354.4	371.6	386.8	
Kauai	120.0	123.7	119.5	114.7	122.4	
Tri-Isle	233.0	244.7	284.2	320.3	333.8	
Maui	223.8	234.2	274.3	308.2	319.0	
Molokai	4.2	5.5	7.1	5.6	9.4	
Lanai	4.9	5.0	1.7	6.5	5.5	
TOTAL ACUTE						
Oahu w/o Tripler	1233.4	1278.9	-	1342.2	1376.1	1417.5
Hawaii	126.5	119.4	114.5	121.8	131.0	
Kauai	66.7	63.2	73.6	65.9	74.0	
Tri-Isle	103.2	101.6	90.3	96.3	93.9	
Maui	98.9	96.6	87.5	92.7	-	
Molokai	3.5	4.6	2.8	3.1	3.0	
Lanai	.7	.4	.04	.1	.1	
MEDICAL-SURGICAL						
Oahu w/o Tripler	991.3	1017.4	1017.3	1019.0	1039.1	1070.9
Hawaii	95.2	87.2	75.4	82.1	89.9	
Kauai	53.3	47.3	55.0	50.8	59.8	
Tri-Isle	87.3	85.7	70.6	77.5	74.6	
Maui	84.0	81.7	68.6	75.2	72.2	
Molokai	2.8	3.6	1.9	2.2	2.3	
Lanai	.6	.4	.03	.1	.1	
CRITICAL CARE (ICU/CCU)						
Oahu w/o Tripler	-	61.2	86.2	66.1	-	109.6
Hawaii	-	7.5	8.7	8.3	8.8	
Kauai	-	3.4	3.0	2.8	.6	
Tri-Isle	-	3.6	4.6	4.7	4.6	
Maui	-	3.6	4.6	4.7	4.6	
OBSTETRICS						
Oahu w/o Tripler	113.0	110.8	104.7	113.8	114.5	115.2
Hawaii	14.9	14.8	12.8	13.6	13.6	
Kauai	6.5	7.2	7.6	6.7	6.5	
Tri-Isle	8.6	8.7	7.2	7.3	7.5	
Maui	8.0	8.1	6.6	6.8	7.0	
Molokai	.5	.6	.5	.5	.5	
Lanai	.1	.1	.008	.04	-	
PEDIATRICS						
Oahu w/o Tripler	78.4	89.5	64.2	60.9	65.6	67.5
Hawaii	8.2	9.3	7.3	6.4	6.3	
Kauai	.9	4.4	3.3	2.4	2.9	
Tri-Isle	4.7	3.6	3.8	3.6	3.6	
Maui	4.4	3.3	3.5	3.2	3.5	
Molokai	.3	.3	.3	.4	.2	
PSYCHIATRIC						
Oahu w/o Tripler	50.7	61.2	119.7	82.5	61.8	54.3
Hawaii	8.1	8.1	10.2	11.5	12.5	
Kauai	6.1	4.3	4.6	3.3	4.2	
Tri-Isle	2.6	3.6	4.3	3.2	3.5	
Maui	2.6	3.5	4.2	3.1	3.4	
Molokai	.02	.07	.02	.05	.02	
MENTALLY RETARDED (State)	534.7	477.7	446.4	423.7	405.4	
SPECIALTY (State)	353.8	322.4	359.3	373.0	365.4	

SHPDA: May 1983

*1982 incomplete

TABLE 7
NUMBER OF ADMISSIONS BY COUNTY

	1977	1978	1979	1980	1981	1982*
LONG TERM CARE						
Oahu	1758	1483	1367[1]	1605[2]	1537	
Hawaii	755	759	471	567	464	
Kauai	194	190	149	173	126	
Tri-Isle	158	179	287	305	351	
Maui	133	172	279	293	331	
Molokai	7	3	8	7	13	
Lanai	18	4	-	5	7	
TOTAL ACUTE						
Oahu w/o Tripler	72702	72386	74076	75875	77152	78155
Hawaii	10623	10588	10574	11599	10206	
Kauai	4109	4517	4727	4633	4565	
Tri-Isle	7330	7120	6801	7337	7324	
Maui	6866	6578	6359	6888	6868	
Molokai	403	495	484	426	436	
Lanai	61	47	8	23	20	
MEDICAL-SURGICAL						
Oahu w/o Tripler	50986	50855	46655	48370	51495	51335
Hawaii	7521	7508	6263	7162	7272	
Kauai	3138	3023	2690	2834	2952	
Tri-Isle	5385	5199	4492	4986	4882	
Maui	5082	4853	4217	4703	4590	
Molokai	262	310	269	268	272	
Lanai	41	36	6	15	20	
CRITICAL CARE (CCU/ICU)						
Oahu w/o Tripler	-	-	6361	6358	4757	5522
Hawaii	-	-	1284	1089	993	
Kauai	-	-	447	394	111	
Tri-Isle (Maui Only)	-	-	500	549	556	
OBSTETRICS						
Oahu w/o Tripler	13416	12975	12295	12799	12727	13203
Hawaii	1782	1796	1836	2025	2084	
Kauai	773	895	1052	989	955	
Tri-Isle	1173	1251	1171	1222	1304	
Maui	1064	1126	1065	1112	1191	
Molokai	89	114	104	102	113	
Lanai	20	11	2	8	-	
PEDIATRICS						
Oahu w/o Tripler	6363	6901	5848	5707	6106	6357
Hawaii	841	829	808	781	806	
Kauai	87	486	390	314	347	
Tri-Isle	570	394	379	419	442	
Maui	523	336	325	374	398	
Molokai	47	58	54	45	44	
PSYCHIATRIC						
Oahu w/o Tripler	1937	2224	2917	2641	2067	1738
Hawaii	479	455	563	542	562	
Kauai	111	113	148	132	200	
Tri-Isle	202	276	259	161	140	
Maui	197	263	252	150	133	
Molokai	5	13	7	11	7	

FOOTNOTES: [1]Oahu's data include Leahi's and Maunalani's fourth quarter only so the County's totals were inflated four times.

[2]Rates reflect bed changes at Maluhia and Kahanaola.

SHPDA: May 1983

*1982 incomplete

FAMILY HEALTH SERVICES DIVISION

FAMILY HEALTH SERVICES DIVISION

Summary

The Family Health Services Division administers a program which is concerned with the provision and promotion of health services to mothers and children, family planning services and community services to the developmentally disabled. Programs are carried out through the Maternal and Child Health Branch, Crippled Children Services Branch, Community Services for the Developmentally Disabled Branch and School Health Services Branch.

The Maternal and Child Health Branch divides its services into three sections: (1) family planning services, (2) maternal and infant services, and (3) children and youth services. The goals of these activities are to assist families to raise healthy, well-adjusted children through public education, parent education, emphasis on preventive measures and involvement of community leaders in planning activities.

The Family Planning Services Section strives to provide individuals the freedom of choice to determine the number and spacing of their children. In addition a need is seen to help young people develop a responsible attitude toward their roles as parents beginning early in the educational process. The staff of the Office of Family Planning coordinates the statewide efforts of federal, state and private resources for delivery of quality services, staff education and training, program planning, evaluation, and research. Parent groups, teachers, and young people themselves participate in developing activities. Family planning services were provided to 13,918 women in fiscal year 1982. This is a 12% decrease from the 15,840 receiving services in fiscal year 1981.

The Maternal and Infant Services Section includes both the Maternity and Infant Care (MIC) Project and the Intensive Infant Care Project. The MIC Project maintains two clinics in geographic areas that have a high prevalence of low income families. These sites are Waimanalo on Oahu and Hilo on the Big Island of Hawaii. The clinics offer comprehensive maternity care including prenatal care, postpartum care, and family planning services. Comprehensive pediatric care is given to high-risk, low income infants for their first year of life. The emphasis in the MIC clinics has been to develop effective programs in parent education, to serve young people as well as low income families, and lower the incidence of low birth weight newborns in this high-risk population. Table 2 summarizes the activities of the MIC Project clinics during calendar year 1982.

The Children and Youth Services Section includes the Children and Youth Project; the Child Health Conferences; the Early and Periodic Screening, Diagnosis and Treatment Program; the Preschool Developmental Screening Program; and the Dental Health Project. The Children and Youth Project offers preventive case finding and diagnostic services to any child in Waimanalo younger than 16 years. For low income children, it offers complete health care, including pediatric care, referral to specialists, hospitalization, dentistry, psychological services, speech services, as well as public health nursing, social casework, and nutrition. A total of 2,092 infants and children were enrolled during the calendar year 1982. This figure is virtually the same as the 2,120 enrolled in 1981. Table 3 indicates the number of patients receiving services.

The Child Health Conferences include medical well-baby clinics, nursing conferences, and pediatric evaluation clinics. Children from birth through five years of age may attend the clinics located throughout the State. Services include health assessment, immunization, childrearing guidance, nutrition, preventive mental health, and referral to other agencies when needed. Child health conferences are supplemented by public health nursing services in the homes, in day care centers, and at nursing stations. A total of 10,778 children were seen in the child health conferences in fiscal year 1982. This is approximately the same number of children seen in 1981. Table 4 shows the attendance at child health conferences by age and by county. It can be seen that the greatest usage is by infants under one year on the neighbor islands.

The Early and Periodic Screening, Diagnosis and Treatment (EPSDT) Program, conducted throughout the State, is primarily for children 0-21 years of age receiving Medicaid. The screening includes physical and developmental screening, vision-hearing screening, urine screening, testing for anemia, tuberculin skin tests, and immunizations. The staff screened 2,209 children during fiscal year 1982 which is a 21% increase from the 1,821 screened in 1981.

The Preschool Developmental Screening Program initiated the training-consultation program where preschool staffs, public health nurses and other interested community providers may perform their own screening and refer to appropriate community resources for necessary follow-up including diagnostic evaluations. The training was conducted on Oahu only while the neighbor islands received direct screening services. During the first year of training, 115 persons completed training and administered 1,657 second level screening. This figure of 1,657 added to 428 done under the direct service component, equals 2,085 for the year; the previous count was 999.

The Crippled Children Services Branch offers diagnostic evaluations by specialists to all children under the age of 21 years who are suspected of having one of the eligible medical conditions (Table 7). An individual treatment plan is formulated for each client by an interdisciplinary team of health professionals. If not financially eligible for further services, the client is referred for appropriate private care. Treatment services for those children who are financially eligible, include medical and surgical treatment, hospitalization, occupational and physical therapy, speech therapy, social work and nursing services.

The medically eligible conditions include major birth defects (such as cleft lip and palate, congenital heart disease, orthopedic conditions and spina bifida), also severe asthma, rheumatic fever and rheumatic heart disease, surgically correctable eye conditions, hearing impairment and neurologic disorders.

During the Fiscal Year 1981-82, 1509 children and young adults between the ages of 0-21 were provided services. Of this total number of clients, 372 were new cases.

During the past three years, the Crippled Children Services Branch has served a declining number of clients with eligible conditions (Graph 1). This can be attributed to a continuing increase in medical costs, coupled with decreased funding. As a result, the Crippled Children Services Branch has concentrated on the provision of medical services to clients who are most severely handicapped.

The Department of Health, Crippled Children Services Branch, has also provided financial assistance to the medical community for early identification of genetic and metabolic disorders via grants to the cytogenetics laboratory and Medical Genetics Services at Kapiolani-Children's Medical Center.

The Community Services for the Developmentally Disabled Branch plans, organizes, coordinates, administers and evaluates community-based services to children and adults with developmental disabilities and their families. The continuum of services which are required to facilitate growth and development throughout life are provided by or contracted through the Department of Health. This service continuum begins with early identification, diagnostic and training services in infancy and extends through an array of adult activity programs and residential alternatives in the community.

The Child Study Section, through Child Development Clinics, develops, administers and coordinates the activities of the Diagnostic and Evaluation Program for developmentally disabled children. The Section also provided dental services through September 30, 1981. The Child Development Clinic provides itinerant services to the islands of Hawaii, Kauai, Maui and Molokai several times a year. In addition, diagnostic services for children with complex or puzzling conditions are available through the Diagnostic Observation Center which provides a daily program in which the diagnostic evaluation process may take place for over an extended period.

A total of 299 comprehensive diagnostic evaluations were completed during the fiscal year of which 55 were provided via the neighbor island clincis.

The Community Program Section includes programs of prevention for infants and young children with developmental disabilities and delays, who are at risk of mental retardation, residential services for the mentally retarded in the community, respite care, homemaker services, and interdisciplinary support services to the case management system. These activities are carried by two units: the Infant and Child Development Centers and the Community Support Services Unit.

The Infant and Child Development Centers provides developmentally disabled or delayed infants and children a comprehensive individualized, developmental training program; families and caretakers are provided services to increase their knowledge, skills, attitudes and confidence needed to provide the optimum environment for their child. Seven hundred children and their families received services during 1981-82; 404 were serviced in Department of Health programs, and 296 received service from private agencies through contracts with the Department.

The Community Support Services Unit provides direct services to the mentally retarded through an interdisciplinary team to maximize their potential, enhance their quality of life and sustain them in the community. An array of support services are provided through the Department and through contracted services such as homemaker services and therapeutic residential services. All contracted services are closely monitored by the Unit staff.

Placement and Continuing Services Section provided case management services to 898 mentally retarded persons at the end of fiscal year 1982. Case management services provided by social workers involve acquiring and coordinating various community services and programs to sustain mentally retarded persons in the community, following their adjustments in living and activity situation, advocating on their behalf, and constantly assessing needs to promote their welfare. Case management services were provided to 621 mentally retarded persons on leave or conditionally released from Waimano Training School and Hospital and 277 community referred mentally retarded persons, who were potential for first time admission to the institution. The Director of Health is guardian for 599 of the population on leave from Waimano.

At June 30, 1982, Waimano residents on leave decreased from the last report date from 635 to 621. The decrease is attributed in lower numbers of residents placed in the community as affected by numbers returning to the institution, discharges, and deaths. There was an increase in community referred population at 277 from 227 of the previous report date of which 60% of the increased number might have sought institutional care, but were sustained by various Program activities.

The Branch provides various activity programs to develop personal self-sufficiency, social and work related skills in mentally retarded adults. These services include the Branch operations but are primarily contracted by the Branch. There was a reduction in numbers served in activity programs at 754 from 830 of the previous year. The reduction was due to no increase funding for contracted services, which decreased as affected by inflationary cost to providers of services. The Branch also provides respite care services through its foster home operations and contractual services. There was an increase in numbers served in respite care programs at 360 from 295 of the previous year. The increase was due to the provider of services to use funding efficiently and/or supplemented the funding by charging fees.

Under delegated responsibility from Department of Social Services and Housing, this Section develops, recruits, licenses, trains and monitors foster homes to provide care for mentally retarded children in the community. As of June 30, 1982, there are 67 active foster homes. Of this total 25 are operated as group, therapy, teaching or respite homes by private agencies on contract with th Department; the remaining 42 are maintained by Placement and Continuing Services Section.

The School Health Services Branch is responsible for the planning, coordination, development and implementation of statewide school health programs. Services are provided through three sections: 1) School Health Services, 2) Diagnostic Services, and 3) School Health Support Services. The School Health Services Branch provides the leadership and direction needed for the delivery of cost-effective school health services for the more than 200,000 children in schools in Hawaii. The School Health Services Section provides emergency health services for illness and injury, early identification of health conditions, preventive health care, and referral of problems to appropriate resources with follow-up. The School Health Support Services Section provides vision and hearing screening services for early identification of specific sensory deficits in order to prevent interference with learning and adjustment. In addition, the Support Services Section provides occupational and physical therapy evaluation, consultation and therapy services to the handicapped school population in accordance with PL 94-142. The Diagnostic Services Section consists of a team of professional staff which evaluates children (3-10) who are suspected of having specific learning disabilities. The staff assures diagnostic assessments (social, medical, speech-language, psychological, education) and conducts team case conferences which include the parents and whenever possible, the staff from the responsible school. Arrangements are made for appropriate medical referral and follow-up. The tables relate to these programs.

Graph 1

Clients Served by Fiscal Year
Crippled Children Services Branch
State of Hawaii, Department of Health

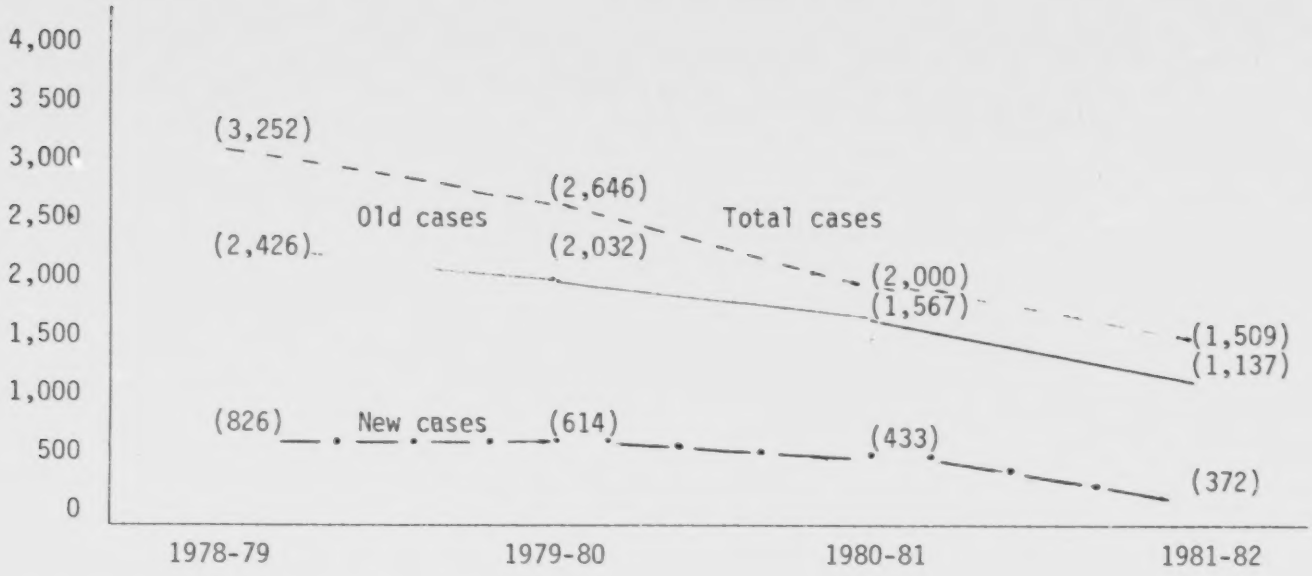


TABLE 1

WOMEN RECEIVING FAMILY PLANNING SERVICES IN
PUBLICLY SUBSIDIZED CLINICS IN HAWAII
DURING FISCAL YEAR 1982

Service Provider	Number of Clients		Number of Client Visits
	New*	Total	
Hawaii Planned Parenthood	3,037	7,986	13,894
Kapiolani Hospital	560	1,555	3,891
University of Hawaii	516	1,328	2,833
Hale Ho'ola Hou	353	530	925
Women's Health Center	205	240	355
Kokua Kalihi Valley	49	78	135
Waikiki Health Center	249	380	530
Department of Health Providers			
1) Rural Oahu Family Planning Project	519	1,101	2,218
2) Lanai Hospital	11	43	66
3) Waimanalo Maternity and Infant Care Project	78	319	754
4) Hilo Maternity and Infant Care Project	60	218	760
5) Nanakuli Maternity and Infant Care Project	42	140	514
State Totals	5,670	13,918	26,875

*Clients admitted for the first time in Fiscal Year 1982.
Source: Family Planning Data System, Maternal and Child Health Branch.

TABLE 2

NUMBER OF WOMEN AND INFANTS RECEIVING SERVICES
AT THE MATERNITY AND INFANT CARE PROJECT BY TYPE OF SERVICE
FOR PERIOD JANUARY 1, 1982 - DECEMBER 31, 1982
STATE OF HAWAII

Type of Service	Number of Women and Infants Receiving Services
Prenatal Care	248
Under 15 Years Old	2
15 Years Old	15
16 - 34 Years Old	229
35 Years and Over	2
Total Deliveries	160
Live Births Under 2501 grams	40
Infants Admitted for High Risk Infant Care*	6
Family Planning Case Load	716
New Admissions	237
Admissions Selecting Oral Contraceptives	146
Admissions Selecting Intrauterine Device	31

*High Risk: Having any prenatal, intrapartum, developmental or hereditary condition or other circumstance which increases the risk of survival and/or to normal development. Total number of new admissions.

TABLE 3

WAIMANALO CHILDREN AND YOUTH PROJECT ACTIVITIES
STATE OF HAWAII, CALENDAR YEAR 1982

Type of Activity	No. of Encounters	No. of Children
Target of Population*	---	3,592
Total Number Enrolled Any Part of 1982	---	2,092
Current Enrollment, December 1982	---	1,740
New Enrollees in 1982	---	258
Moved Away	---	141
Became Over Aged (16 years old)	---	123
Deceased	---	4
Medical Services		
Episodic Care	4,240	---
Health Assessments	7,514	2,015
Public Health Nursing Services		
Home Visits	416	251
Hospital Visits	105	105
Speech and Hearing Services		
Screening	1,516	---
Therapy	186	---
Dental Referrals	---	234

*Based on adjusted figure for U.S. Census 1970.

TABLE 4

INFANTS AND CHILDREN PROVIDED PUBLIC HEALTH NURSING SERVICES
IN CHILD HEALTH CONFERENCES
STATE OF HAWAII, FISCAL YEAR 1982

County	Infants Under 1 Year	Children Over 1 Year
State of Hawaii	2,759	8,019
Honolulu County	1,360	4,679
Hawaii County	884	1,767
Maui County	381	1,177
Kauai County	134	396

TABLE 5

DISTRIBUTION OF CHILDREN RECEIVING
SERVICES BY STATUS AND AGE
CRIPPLED CHILDREN SERVICES BRANCH
(unduplicated count)
STATE OF HAWAII, DEPARTMENT OF HEALTH
FISCAL YEAR 1981-82

				Age of Child in Years						
ISLAND	TOTAL	NEW CASES	OLD CASES	Under 1	1-4	5-9	10-14	15-17	18-20	21
Oahu										
No.	737	192	545	54	178	155	163	90	80	17
Percent	48.8									
Maui*										
No.	203	36	167	13	35	56	60	24	13	2
Percent	13.5									
Kauai										
No.	98	13	85	4	24	32	18	13	6	1
Percent	6.5									
Hawaii										
No.	471	131	340	19	115	135	106	56	32	8
Percent	31.2									
TOTAL	1,509	372	1,137	90	352	378	347	183	131	28

*Includes the islands of Lanai and Molokai

TABLE 6

STAFF SERVICES PROVIDED BY
CRIPPLED CHILDREN SERVICES BRANCH STAFF
BY TYPE OF SERVICE
(duplicated count*)
STATE OF HAWAII, DEPARTMENT OF HEALTH
FISCAL YEAR 1981-82

TYPE OF SERVICE	TOTAL CASES	CCSB	ORTHOPEDIC UNITS	TOTAL SERVICE ENCOUNTERS	CCSB	ORTHOPEDIC UNITS
Occupational Therapy	93	7	86	2,417	149d	2,268d
Physical Therapy	82	10	72	4,339	345d	3,994d
Speech/Hearing	170	117	53	1,997	536d	1,461d
Social Work	867	762	105	4,262	3,467d	795d
Nursing	73	10	63	1,851	242d	1,609d
Program Coordinations	1,650	1,509	141	----	----	----
TOTAL	2,935	2,415	520	14,866	4,739	10,127

*Includes staff of orthopedic units at Jefferson and Campbell schools

TABLE 7

DISTRIBUTION OF PRIMARY MEDICAL CONDITIONS AMONG CHILDREN RECEIVING CRIPPLED CHILDREN SERVICES BY DIAGNOSTIC GROUP AND AGE OF CHILD
(unduplicated count)
STATE OF HAWAII, DEPARTMENT OF HEALTH
FISCAL YEAR 1981-82

DIAGNOSTIC GROUP	TOTAL	TYPE OF CASE		AGE OF CHILD IN YEARS						
		NEW	OLD	UNDER 1	1-4	5-9	10-14	15-17	18-20	21
TOTAL	1,749	451	1,298	115	430	412	406	203	150	33
CARDIAC DISORDERS										
Congenital Heart	245	61	184	33	73	55	40	23	18	3
Malf. Grt. Vessels	75	14	61	7	15	14	16	14	7	2
Rheumatic Fever	96	14	82	0	2	11	33	29	19	2
Rheumatic Heart Disease	115	12	103	0	5	7	39	26	33	5
Other	89	49	40	10	31	28	7	9	4	0
CRANIO-FACIAL ANOMALIES										
Cleft Lip/Palate	93	16	77	7	30	21	28	5	1	1
Craniostenosis	5	2	3	1	1	0	1	1	1	0
COMMUNICATION DISORDERS										
Hearing Impairment										
Conductive Impairment	47	22	25	0	15	16	11	2	3	0
Sensorineural	92	13	79	0	19	25	27	16	4	1
Other	6	0	6	0	0	3	1	0	1	1
Non-organic Speech Defects	80	46	34	0	55	24	1	0	0	0
Organic Speech Defects	42	5	37	1	26	7	6	0	1	1
Ear Disorders										
Otitis Media	120	23	97	0	19	42	47	5	5	2
Other	6	1	5	0	0	0	4	1	0	1
GENETIC/CONGENITAL DISORDERS										
G.I. Malformation	13	6	7	4	3	5	0	0	0	1
G.U. Malformation	13	7	6	6	3	2	2	0	0	0
Inborn Errors	4	1	3	1	1	1	0	0	1	0
Other	48	24	24	15	21	3	6	1	2	0
Congenital Malformation of Ear	6	1	5	1	2	0	3	0	0	0
NEUROLOGICAL/NEUROMUSCULAR DISORDERS										
Seizure Disorders	96	17	79	4	9	27	23	16	13	4
Cerebral Palsy	72	8	64	0	15	25	20	4	6	2
Congenital Hydrocephalus	12	7	5	5	3	1	1	2	0	0
Muscular Dystrophy	3	0	3	0	0	1	1	0	1	0
All other diseases of Nervous System	8	3	5	2	2	2	1	0	1	0
Myelodysplasia	46	10	36	6	12	7	4	5	10	2
ORTHOPEDIC DISORDERS										
Polio	2	1	1	0	0	0	0	1	1	0
Scoliosis	47	12	35	0	3	1	24	16	2	1
Club Foot	45	3	42	0	11	17	10	4	3	0
Bone Disease	11	3	8	0	2	1	1	2	4	1
Congenital Dislocation of the Hip	8	8	0	0	1	2	4	1	0	0
Congenital Limb Malformation	30	7	23	1	9	7	7	3	2	1
All Other	17	5	12	0	7	4	5	1	0	0
PULMONARY DISORDERS										
Asthma	59	19	40	1	10	23	18	4	3	0
Cystic Fibrosis	1	0	1	0	0	1	0	0	0	0
Other Respiratory Disorders	1	0	1	0	0	0	0	0	0	1
RHEUMATOID ARTHRITIS	9	2	7	0	1	2	3	2	1	0
VISUAL DISORDERS										
Cataract	1	1	0	1	0	0	0	0	0	0
Strabismus	15	4	11	2	8	4	0	0	1	0
Blindness	1	0	1	0	0	1	0	0	0	0
Other	3	0	3	0	1	0	2	0	0	0
MISCELLANEOUS										
Burns	3	1	2	0	0	2	0	1	0	0
Blood Disorders	4	0	4	0	1	1	1	1	0	0
Learning Disability	2	0	2	0	0	0	2	0	0	0
Mental Retardation	14	2	12	1	3	5	0	4	1	0
Peri-natal Complications	8	2	6	1	1	2	0	4	0	0
Other	6	1	5	0	1	3	1	0	0	1
Deferred	20	11	9	4	7	5	4	0	0	0
No Abnormalities	10	7	3	1	2	4	2	0	1	0

TABLE 8

INFANT & CHILD DEVELOPMENT SERVICES PROVIDED
BY NUMBER OF CHILDREN SERVED AND GEOGRAPHIC AREA COVERED

STATE OF HAWAII, FISCAL YEAR 1981-82

NAME OF PROGRAM	GEOGRAPHIC AREA COVERED	NO. SERVED
Private Agencies		
Society for Crippled Children & Adults of Maui County	Maui/Molokai	58
Easter Seal Society of Hawaii, Inc.		
Kauai	Kauai	23
Hawaii	Hilo and outlying areas, Pahoa to Waimea	99
Oahu	Hawaii Kai to Liliha Street	72
Waianae Coast Day Care Center, Inc.	Waianae, Oahu	44
Sub-total Private Agencies		296
Department of Health		
Kona Infant Development Program	Kona Coast	50
Lanakila Infant Development Program	Kalihi/Palama	88
Leeward Infant & Child Development Program	Makakilo, Halawa Heights, Aiea, Hickam, Pearl City, Ewa, Waipahu	99
Wahiawa Infant & Child Development Program	Wahiawa, Haleiwa, Waialua, Mililani, Sunset Beach	91
Windward Infant & Child Development Program	Windward Coast Waimanalo to Kahuku	76
Sub-total - DOH		404
Total Children Served		700

TABLE 9

NUMBER OF MENTALLY RETARDED IN
CASE MANAGEMENT SERVICES

STATE OF HAWAII, FISCAL YEAR 1982

Total	898
Leave Population, Waimano	621
Community Referred Population	277

TABLE 10

STATISTICAL MOVEMENT OF RESIDENTS FROM
WAIMANO TRAINING SCHOOL AND HOSPITAL

STATE OF HAWAII, FISCAL YEAR 1982

Residents on Leave at Start of Year	635
Community Placements	57
Discharge While on Leave	18
Deaths on Leave	6
Returns from Community Placement	47
Residents on Leave at End of Year	621

TABLE 11

LEAVE POPULATION, WAIMANO, JUNE 30,
BY MEASURED INTELLIGENCE

STATE OF HAWAII, FISCAL YEAR 1982

Measured Intelligence	Leave Population on June 30
Total	621
I. Mild	138
II. Moderate	199
III. Severe	164
IV. Profound	113
Borderline	5
Undetermined Intelligence	2

TABLE 12

ACTIVITY PROGRAMS

STATE OF HAWAII, FISCAL YEAR 1982

Area	Type of Program	Numbers Served
	Total	754
Oahu	Leisure Activity	50
	Day Activity	150
	Pre-Vocational	181
	Work Activity	101
Hawaii	Day Activity	42
	Pre-Vocational	57
	Work Activity	39
Maui	Day Activity	48
	Pre-Vocational	11
	Work Activity	27
Kauai	Day Activity	30
	Pre-Vocational	0
	Work Activity	18

Numbers include DOH operations and contracted programs.

TABLE 13

RESPITE CARE PROGRAMS

NUMBERS SERVED AND GEOGRAPHIC AREAS COVERED

STATE OF HAWAII, FISCAL YEAR 1982

Agency	Area	Numbers Served
	Total	360
DOH	Oahu	15
Easter Seal Society	Oahu	235
ARC, Hilo	Hawaii	35
ARC, Maui	Maui	35
ARC, Kauai	Kauai	40

TABLE 14

TOTAL NUMBERS OF HEALTH ROOM VISITS, a/

REASONS FOR VISIT AND DISPOSITION

School Health Services Branch

Department of Health

State of Hawaii

By School Year From 1977-78 Through 1981-82

	1977-78	1978-79	1979-80	1980-81	1981-82
Total visits to health room	535,021	550,299	500,437	528,146	550,837
Reason for visit: (Students Only) b/	(40.86)	(42.02)	(42.20)	(43.88)	(45.68)
Illness	218,587	231,229	211,204	231,748	251,618
Injury	(44.48) 237,996	(42.96) 236,401	(42.88) 214,600	(44.83) 236,751	(39.53) 217,746
Medication	(5.30) 28,347	(5.43) 29,880	(5.35) 26,791	(2.33) 12,294	(5.22) 28,729
TLC	(1.47) 7,848	(1.39) 7,659	(1.38) 6,917	(2.46) 13,007	(3.57) 19,677
Non-health	(7.64) 40,885	(7.96) 43,806	(7.95) 39,790	(6.28) 33,163	(5.82) 32,085
Disposition: (Students and Staff)	(18.12)	(18.71)	(18.39)	(19.06)	(20.89)
Sent home	96,971	102,947	92,013	100,666	115,088
Returned to class	(79.92) 427,600	(79.31) 436,436	(79.92) 399,957	(79.16) 418,067	(77.25) 425,496
Remained in health room	(1.95) 10,450	(1.98) 10,916	(1.69) 8,467	(1.78) 9,413	(1.86) 10,253

Total health room visits include students and staff.

a/ Numbers are approximate.

b/ Numbers in parenthesis represent percentages of annual health room visits.

TABLE 15
REQUESTS FOR ADMINISTRATION OF MEDICATION
BY CONDITION AND MEDICATION
School Health Services Branch
Department of Health
State of Hawaii
1981-82

CONDITION	#	MEDICATION	PRN	SCHEDULED	STORAGE
Allergy	76	Benadryl	50	1	-
		Other Antihistamines	6	8	-
		Adrenaline	2	-	12
		Other	4	2	-
Asthma	58	Slophyllin	4	3	-
		Marax	8	-	-
		Elixicon	4	2	-
		Inhaler	9	1	-
		Theophylline	6	2	-
		Choledyl	2	4	-
		Albuterol	5	-	-
		Other	6	6	-
Headache, Migraine	8	Phenobarbital	1	-	-
		Non-Narcotic Analgesics	6	-	-
		Other	2	2	-
Hyperactiviy	214	Ritalin	-	208	1
		Dextroamphetamine	-	1	-
		Cylert	-	2	-
		Mellaril	-	2	-
Seizures	27	Phenobarbital	-	4	-
		Dilantin	-	7	-
		Tegretol	-	10	-
		Depakene	-	5	-
		Clonopin	-	3	-
		Other	2	8	1
Other	35	Miscellaneous	10	24	-
TOTAL	418		127	305	14

TABLE 16
HEALTH PROBLEM SUMMARY LIST [a/]
School Health Services Branch
Department of Health
State of Hawaii
1981-1982

CONDITION	DISTRICT							TOTAL
	Honolulu	Windward	Central	Leeward	Hawaii	Maui	Kauai	
Allergies	1,300	1,213	1,543	962	1,449	553	413	7,433
Arthritis	6	10	15	12	12	3	3	61
Asthma	820	877	1,034	1,029	1,326	469	548	6,103
Behavior	60	88	11	4	6	7	14	190
Blood Disorder	56	17	35	40	8	24	11	191
Cardiac	175	92	150	110	69	72	58	726
Cystic Fibrosis	1	4	2	2	0	0	0	9
Diabetes	24	21	30	18	14	10	4	121
Ear Problems	811	670	456	762	451	335	165	3,650
Eye Problem	236	290	373	323	264	140	101	1,727
Gastro Intestinal	20	10	26	19	21	5	8	109
Genito-urinary Disorders	32	39	60	55	30	32	8	256
Hyperactivity	49	53	72	77	10	18	16	295
Hypertension	7	4	13	5	12	3	6	50
Neoplasm (Ca/Leukemia)	10	8	13	9	6	5	1	52
Neuro-orthopedic	398	259	364	267	338	165	66	1,857
Rheumatic Fever/RHD	30	39	19	45	64	25	5	227
Seizures	180	102	134	150	106	62	44	778
TOTALS	4,215	3,796	4,350	3,889	4,186	1,928	1,471	23,835

a/ Numbers are approximate.

TABLE 17
NUMBER OF CASES REFERRED TO SCHOOL NURSES
School Health Services Branch
Department of Health
State of Hawaii
1981-1982

ISLAND	Elementary	Intermediate	High School	TOTAL
Oahu	4,455	1,093	1,281	6,829
Hawaii	228	58	117	403
Maui [a/]	317	54	56	427
Kauai	339	48	367	754
TOTAL	5,339	1,253	1,821	8,413

a/ Maui includes the islands of Maui, Molokai and Lanai.

TABLE 18

VISION STATISTICS
School Health Services Branch
Department of Health, State of Hawaii
1981-82

	Total Number Screened	Number Referred	% Ref.	No. of Completed Referrals	% Comp. Ref.	No. New Deficit Findings	% New Def. Find.	% Def. Find. Of. No. Screen.	No. New Glasses Prescribed	% New Glasses	% New Glass Of No. Screen	% Over. Ref.
Preschools	7,916	81	1%	54	67%	40	74%	.5%	11	28%	.1%	26%
Private/Parochial Schools	2,186	46	2%	32	70%	26	81%	1%	18	69%	.8%	16%
Dept. of Education	111,071	2,925	3%	2,199	75%	1,967	89%	2%	1,333	68%	1%	8%
Oahu	82,905	2,193	3%	1,690	77%	1,576	93%	2%	1,077	68%	1%	4%
Hawaii	14,006	243	2%	176	72%	152	86%	1%	106	70%	.8%	8%
Maui	8,960	323	4%	196	61%	139	71%	2%.	90	65%	1%	25%
Kauai	5,200	166	3%	137	83%	100	73%	2%	60	60%	1%	26%
Total	121,173	3,052	3%	2,285	75%	2,033	89%	2%	1,362	67%	1%	8%

TABLE 19

HEARING STATISTICS
School Health Services Branch
Department of Health, State of Hawaii
1981-82

	Total Number Screened	Number Referred	% Referred	No. Of Completed Referrals	% Comp. Ref.	Number Deficit Finding	% Def. Find.	% Def. Find. of Number Screened	% Over Ref.
Preschools	7,124	228	3%	135	59%	111	82%	2%	18%
Private/Parochial Schools	9,407	136	1%	77	57%	64	83%	.7%	17%
Dept. of Education	65,494	2,038	3%	1,089	53%	994	91%	2%	9%
Oahu	48,591	1,464	3%	754	52%	672	89%	1%	11%
Hawaii	8,3[illegible]	278	3%	151	54%	146	97%	2%	3%
Maui	5,075	226	4%	134	59%	126	94%	2%	6%
Kauai	2,953	70	2%	50	71%	50	100%	2%	0%
Total	82,025	2,402	3%	1,301	54%	1,169	90%	1%	10%

TABLE 20
NUMBER OF STUDENTS RECEIVING OCCUPATIONAL THERAPISTS' SERVICES
BY CATEGORY AND DISTRICT, FISCAL YEAR 1981-82
School Health Services Branch
Department of Health, State of Hawaii

	Honolulu	Windward	Central	Leeward	Hawaii	Maui	Kauai	Total
Multiply Handicapped	-	-	2	-	-	-	-	2
Severely Multiply Handicapped	23	21	18	28	16	19	10	135
Learning Disabled	63	57	71	26	22	2	23	264
Educ. Ment. Retarded	20	-	7	10	9	6	4	56
Train. Ment. Retarded	26	6	13	25	10	3	6	89
Sev. Ment. Retarded	19	1	-	6	2	-	1	29
Ortho. Handicapped	7	6	8	7	14	2	4	48
Deaf/Blind	4	-	2	-	-	-	-	6
Ser. Emot. Disturbed	5	-	3	2	8	-	-	18
Visually Impaired	7	1	1	2	2	-	-	13
Hearing Impaired	2	-	-	-	1	1	2	6
Learning Impaired	20	8	10	14	5	-	8	65
Others	14	6	13	7	5	1	-	46
Total	210	106	148	127	94	34	58	777

TABLE 21
NUMBER OF STUDENTS RECEIVING PHYSICAL THERAPISTS' SERVICES
BY CATEGORY AND DISTRICT, FISCAL YEAR 1981-82
School Health Services Branch
Department of Health, State of Hawaii

	Honolulu	Windward	Central	Leeward	Hawaii	Maui	Kauai	Total
Multiply Handicapped	0	0	2	2	1	0	0	5
Severely Multiply Handicapped	30	20	19	28	16	18	9	140
Learning Disabled	30	18	12	10	6	4	22	102
Educ. Ment. Retarded	19	1	8	3	3	2	2	38
Train. Ment. Retarded	16	6	16	7	14	4	1	64
Sev. Ment. Retarded	5	0	2	3	2	8	0	20
Ortho. Handicapped	9	13	9	4	22	7	8	72
Deaf/Blind	5	0	1	0	0	0	0	6
Ser. Emot. Distrubed	3	0	3	0	2	0	0	8
Visually Impaired	7	0	0	0	0	0	1	8
Hearing Impaired	4	2	0	3	2	0	1	12
Others	16	6	15	13	8	2	3	63
Total	144	66	87	73	76	45	47	538

TABLE 22
NUMBER OF STUDENTS RECEIVING OCCUPATIONAL THERAPY ASSISTANT SERVICES
BY CATEGORY AND DISTRICT, FISCAL YEAR 1981-82
School Health Services Branch
Department of Health, State of Hawaii

	Honolulu	Windward	Central	Leeward	Hawaii	Total
Multiply Handicapped	-	-	-	-	-	
Severely Multiply Handicapped	10	1	-	8	-	19
Learning Disabled	29	53	71	23	7	183
Educ. Ment. Retarded	12	16	5	14	10	57
Train. Ment. Retarded	31	7	2	8	4	52
Sev. Ment. Retarded	8	6	-	2	-	16
Ortho. Handicapped	-	3	-	1	1	5
Deaf/Blind	-	-	-	-	-	
Ser. Emot. Disturbed	1	2	-	3	-	6
Visually Impaired	-	-	1	-	-	1
Hearing Impaired	1	-	2	-	1	4
Learning Impaired	-	10	6	10	10	36
Others	2	3	1	1	-	7
Total	94	101	88	70	33	386

TABLE 23

AGE & SEX DISTRIBUTION & FOLLOW-UP RECOMMENDATIONS OF CHILDREN EVALUATED FOR LEARNING DISABILITY
Diagnostic Services Section, School Health Branch
Department of Health, State of Hawaii
January - December 1982

AGE GROUP	SEX	LDC[a]	MRE[b]	MRT[c]	EH[d]	REGULAR PLCMT	REGULAR PLCMT W/HELP	MENTAL HEALTH	CASE-WORK	NURSERY SCHOOL	VARIETY CLUB SCHOOL	RETEN-TION	OTHER	RE-EVAL	TOTAL TESTED	NO TESTING	TOTAL REFRD
0 - 4	M	1	-	-	-	1	3	-	-	1	1	-	6	-	13	-	13
	F	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	1
Subtotal		1	-	-	-	1	4	-	-	1	1	-	6	-	14	-	14
5 - 7	M	13	-	-	-	3	30	5	-	-	1	5	3	-	60	1	61
	F	3	-	-	-	4	8	1	-	-	-	-	1	-	17	1	18
Subtotal		16	-	-	-	7	38	6	-	-	1	5	4	-	77	2	79
8 - 10	M	8	-	-	-	2	24	9	-	-	-	-	1	-	44	1	45
	F	3	1	-	-	1	4	3	-	-	-	1	1	-	14	-	14
Subtotal		11	1	-	-	3	28	12	-	-	-	1	2	-	58	1	59
Over 11	M	-	-	-	-	-	3	1	-	-	-	-	-	-	4	-	4
	F	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	1
Subtotal		-	-	-	-	-	4	1	-	-	-	-	-	-	5	-	5
Total By Sex	M	22	-	-	-	6	60	15	-	1	2	5	10	-	121	3	124
	F	6	1	-	-	5	14	4	-	-	-	1	2	-	33	-	33
TOTAL TESTED		28	1	-	-	11	74	19	-	1	2	6	12	-	154	3	157

a/ LDC - Learning Disability Class
b/ MRE - Mentally Retarded Educable
c/ MRT - Mentally Retarded Trainable
d/ EH - Emotionally Handicapped Class
e/ Regular Placement with Help - tutorial, remedial, speech therapy, or language therapy

TABLE 24

REFERRAL SOURCE & FOLLOW-UP RECOMMENDATIONS OF CHILDREN EVALUATED FOR LEARNING DISABILITY
Diagnostic Services Section, School Health Branch
Department of Health, State of Hawaii
January - December 1982

REFERRAL SOURCE	LDC[a]	MRE[b]	MRT[c]	EH[d]	REGULAR PLCMT	REGULAR PLCMT W/HELP[e]	MENTAL HEALTH	CASE-WORK	NURSERY SCHOOL	VARIETY CLUB SCHOOL	RETEN-TION	OTHER	RE-EVAL	TOTAL TESTED	NOT TESTED	TOTAL REFERRED
DOE																
Honolulu	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	1
Central	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Leeward	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1
Windward	5	-	-	-	1	8	2	-	-	-	1	2	-	19	1	20
Private Sch	10	1	-	-	3	26	6	-	-	-	3	2	-	51	-	51
Physician	-	-	-	-	3	8	2	-	-	-	-	4	-	17	-	17
Oahu Presch	1	-	-	-	-	1	-	-	-	1	1	2	-	6	-	6
PS Screening	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Parents	6	-	-	-	4	26	7	-	1	1	1	-	-	46	1	47
Neigh Isl	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NI Presch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Others	4	-	-	-	-	2	-	-	-	-	1	1	-	8	1	9
Subtotal	27	1	-	-	11	72	17	-	1	2	7	11	-	149	3	152
Re-eval	1	-	-	-	-	2	1	-	-	-	-	1	-	5	-	5
TOTAL	28	1	-	-	11	74	18	-	1	2	7	12	-	154	3	157

a/ LDC - Learning Disability Class
b/ MRE - Mentally Retarded Educable
c/ MRT - Mentally Retarded Trainable
d/ EH - Emotionally Handicapped Class
e/ Regular Placement with Help - tutorial, remedial, speech therapy, or language therapy

TABLE 25
ACADEMIC SOURCES & FOLLOW-UP RECOMMENDATIONS
Diagnostic Services Section, School Health Branch
Department of Health, State of Hawaii
January - December 1982

SCHOOL ATTENDED	LDC[a/]	MRE[b/]	MRT[c/]	EH[d/]	REGULAR PLCMT	REGULAR PLCMT W/HELP[e/]	MENTAL HEALTH	CASE-WORK	NURSERY SCHOOL	VARIETY CLUB SCHOOL	RETEN-TION	OTHER	RE-EVAL	TOTAL TESTED	NOT TESTED	TOTAL REFERRED
DOE	9	-	-	-	2	15	4	-	-	-	2	2	-	34	1	35
Private School	17	1	-	-	8	53	15	-	1	-	3	6	-	104	2	106
Preschool	2	-	-	-	1	6	-	-	-	2	1	4	-	16	-	16
TOTAL TESTED	28	1	-	-	11	74	19	-	1	2	6	12	-	154	3	157

a/ LDC - Learning Disability Class
b/ MRE - Mentally Retarded Educable
c/ MRT - Mentally Retarded Trainable
d/ EH - Emotionally Handicapped Class
e/ Regular Placement with Help - tutorial, remedial, speech therapy, or language therapy

A secondary recommendation was given for 28 of the 154 youngsters evaluated:

Re-evaluation 7
Counseling 7
Sp-La Therapy 4
Medication 4
Reg. Pl. w/Help 2
Retention 2
Tutoring 1
Further Assessment . 1

COMMUNICABLE DISEASE DIVISION

S U M M A R Y

An analysis of the syphilis and gonorrhea morbidity over the past 10 years reveals several interesting trends. The number of syphilis cases of less than one year's duration continues to vary from 80 to 200 cases with no evidence to suggest any long-term trends. Due to the relatively small number of cases, the annual fluctuations are within "normal limits." The syphilis cases are, however, still confined to male homosexuals, with over 90 percent of the cases among gay men. The gonorrhea case rate per 100,000 population has continued to gradually decline with the peak year in 1977. However, the decline has occurred primarily among women. The actual number of gonorrhea cases among men has continued to increase except for 1982. The percentage of male gonorrhea cases in Hawaii has steadily increased from a low of 60 percent in 1973 to a high of 71 percent in 1981. Evidence seems to suggest that this increase in male gonorrhea is primarily due to an increase in male to male transmission while male to female (or vice versa) or heterosexual gonorrhea is gradually decreasing since 1977.

Table 8 lists the number of "Penicillinase-producing Neisseria gonorrhoeae (PPNG)" cases reported in Hawaii. The first PPNG case in Hawaii was detected in November, 1976. Although the number of PPNG cases has increased since 1976, there is no evidence to suggest a colonization of PPNG in Hawaii. In 1982, 79 percent of the PPNG cases were directly linked with the Far East. Although it is encouraging to note a decrease in reported PPNG in Hawaii in 1982, while the rest of the United States reported large increases, the decrease in 1982 probably does not indicate any long-term trends.

In 1982 there was a decline in all vaccine-preventable diseases with the exception of pertussis (whooping cough) where 28 cases were reported. Although whooping cough is considered a disease of young children, more than 50 percent of the cases were diagnosed in individuals six years or older. Also 50 percent of the cases were unimmunized or inadequately immunized against pertussis.

Enteric diseases have decreased in 1982 compared to the previous year. There has been a dramatic decrease in the number of shigellosis cases (214 to 95). This is due to fewer outbreaks of this disease in 1982.

There was an increase in zoonotic diseases. Endemic typhus on Maui increased in 1982 from one case in 1981 to nine cases. Trichinosis increased from no cases in 1981 to five cases in 1982.

TABLE 1
NUMBER OF CASES AND DEATHS FROM COMMUNICABLE DISEASES
STATE OF HAWAII, 1978, 1979, 1980, 1981, and 1982

Disease	1978		1979		1980		1981		1982	
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths
Total	11,079	16	11,957	30	12,270	30	11,438	19	10,310	18
Amebiasis	13	-	27	-	16	-	29	-	33	-
Brucellosis	-	-	-	-	-	-	-	-	-	-
Chancroid	-	-	-	-	-	-	2	-	1	-
Chickenpox	685	-	835	2	926	-	809	-	820	-
Conjunctivitis, infectious	10	-	28	-	50	-	15	1	217	-
Diphtheria	-	-	-	-	-	-	-	-	-	-
Encephalitis, primary & post-infectious	1	-	21	-	22	-	7	-	20	-
Gonorrhea	3,409	-	4,373	-	4,383	-	4,289	-	3,706	-
Hansen's Disease a/	31	1	33	1	34	-	49	2	59	1
Hepatitis A	159	2	123	-	84	-	124	-	81	-
Hepatitis B	65	-	93	1	119	7	95	2	87	3
Hepatitis Non-A, Non-B	-	-	-	-	-	-	-	-	9	2
Hepatitis unspecified	29	-	26	-	29	1	28	-	10	-
Hookworm disease	101	-	145	-	132	-	99	-	91	-
Influenza	352	-	464	6	118	2	96	1	222	-
Leptospirosis	17	-	17	-	27	-	26	-	29	-
Lymphogranuloma venereum	-	-	-	-	-	-	1	-	-	-
Malaria b/	22	-	6	-	29	-	11	-	7	-
Measles (Rubeola)	9	-	68	-	6	-	7	-	6	-
Meningitis, aseptic & viral	78	-	115	-	145	-	184	-	230	2
Meningitis, bacterial (All types) c/	16	3	26	4	49	5	41	3	51	3
Meningitis, meningococcal	(3)	-	(9)	(1)	(1)	-	(4)	-	(5)	(1)
Meningitis, unspecified	-	1	-	2	1	1	-	3	-	-
Mononucleosis, infectious	46	1	44	-	49	-	66	-	44	-
Mumps	38	-	117	-	24	-	26	-	21	-
Pertussis (Whooping cough)	1	-	10	-	-	-	3	-	28	-
Poliomyelitis	-	-	-	-	-	-	-	-	-	-
Rubella	13	-	16	-	5	-	15	-	9	-
Rubella, congenital	-	-	1	-	-	-	-	-	-	-
Salmonellosis	485	-	406	-	405	-	513	-	499	1
Scarlet fever & other strep infections	4,959	-	4,348	-	5,102	-	4,348	-	3,474	-
Shigellosis	131	-	98	-	156	-	214	-	95	-
Syphilis, primary & secondary	51	-	106	-	131	-	75	-	120	-
Syphilis, early latent	34	-	69	-	74	-	47	-	66	-
Syphilis, late & late latent	20	-	21	-	20	-	19	-	5	-
Tetanus	-	-	-	-	-	-	-	-	-	-
Trichinosis	-	-	-	-	-	-	-	-	5	-
Tuberculosis	290	8	311	14	127	14	197	7	252	6
Typhoid fever	11	-	7	-	4	-	2	-	4	-
Typhus fever, endemic	2	-	3	-	3	-	1	-	9	-

a/ Includes reinstated cases
b/ Malaria acquired outside the State
c/ Includes meningitis, meningococcal

TABLE 2

SELECTED COMMUNICABLE DISEASE RATES PER 100,000 POPULATION
IN STATE OF HAWAII 1978-1982

Year	1978	1979	1980	1981	1982
Population	896,600	914,700	972,600	981,000	994,000
	Rates Per 100,000 Population				
All Communicable Diseases	1,236	1,307	1,262	1,166	1,037
Gonorrhea	380	478	450	437	373
Communicable Disease (Exclusive of Venereal Disease)	844	808	788	714	645
Scarlet Fever & Other Strep Infections	553	475	525	443	350
Influenza	39	51	12	10	22
Chickenpox	76	91	95	82	83
Mumps	4	13	3	3	2
Rubella	2	2	1	2	1
Measles (Rubeola)	1	7	1	1	1

TABLE 3
COMMUNICABLE DISEASE REPORT BY GEOGRAPHIC AREAS
STATE OF HAWAII, 1982

Disease	State		TOTAL CASES a/						Military Active Duty
			Hawaii	Oahu	Kauai	Lanai	Maui	Molokai	
	Number	Rate b/							
Total	10,310	1,037.2	729	8,588	556	5	425	7	1,037
Amebiasis	33	3.4	-	20	-	3	10	-	-
Brucellosis	-	-	-	-	-	-	-	-	-
Chancroid	1	0.1	-	1	-	-	-	-	1 c/
Chickenpox	820	82.5	42	758	12	-	8	-	7
Conjunctivitis, infec.	217	21.8	2	213	-	-	2	-	6
Diphtheria	-	-	-	-	-	-	-	-	-
Encephalitis, primary & post-infectious	20	2.0	2	18	-	-	-	-	1
Gonorrhea	3,706	372.8	71	3,490	56	-	87	2	947 c/
Hansen's Disease d/	59	5.9	9	45	2	-	3	-	-
Hepatitis A	81	8.1	9	56	5	-	11	-	25
Hepatitis B	87	8.8	2	73	1	-	11	-	14
Hepatitis Non-A, Non-B	9	0.9	1	8	-	-	-	-	-
Hepatitis Unspecified	10	1.0	-	8	-	-	2	-	1
Hookworm disease	91	9.2	-	89	1	1	-	-	-
Influenza	222	22.3	-	222	-	-	-	-	-
Leptospirosis	29	2.9	14	5	10	-	-	-	-
Lymphogranuloma venereum	-	-	-	-	-	-	-	-	-
Malaria (All imported)	7	0.7	-	7	-	-	-	-	1
Measles (Rubeola)	6	0.6	-	4	-	-	2	-	-
Meningitis, aseptic & viral	230	23.1	18	209	2	1	-	-	9
Meningitis, bacterial (All types) e/	51	5.1	6	42	2	-	1	-	-
Meningitis, meningo.	(5)	(0.5)	(1)	(4)	-	-	-	-	-
Meningitis, unspec.	-	-	-	-	-	-	-	-	-
Mononucleosis, infec.	44	4.4	-	44	-	-	-	-	11
Mumps	21	2.1	2	18	1	-	-	-	-
Pertussis (Whooping cough)	28	2.8	-	28	-	-	-	-	-
Poliomyelitis	-	-	-	-	-	-	-	-	-
Rubella f/	9	0.9	-	9	-	-	-	-	-
Rubella, congenital	-	-	-	-	-	-	-	-	-
Salmonellosis	499	50.2	68	350	18	-	60	3	5
Scarlet fever & other streptococcal infec.	3,474	349.5	452	2,405	434	-	183	-	-
Shigellosis	95	9.6	8	85	1	-	1	-	-
Syphilis, primary & secondary	120	12.1	-	120	-	-	-	-	19 c/
Syphilis, early latent	66	6.6	3	60	1	-	2	-	9 c/
Syphilis, late & late latent	5	0.5	-	4	1	-	-	-	1 c/
Tetanus	-	-	-	-	-	-	-	-	-
Trichinosis	5	0.5	4	-	-	-	1	-	-
Tuberculosis	252	25.4	16	193	9	-	34	-	-
Typhoid fever	4	0.4	-	4	-	-	-	-	-
Typhus fever, endemic	9	0.9	-	-	-	-	7	2	-

a/ Resident cases (includes military on active duty)
b/ Number per 100,000 total population (994,000)
c/ Reported cases by military facilities
d/ Includes reinstated cases
e/ Includes meningitis, meningococcal
f/ Includes 3 imported cases

TABLE 4

VENEREAL DISEASE CASES REPORTED TO THE DEPARTMENT OF HEALTH BY DIAGNOSIS AND SOURCE OF REPORT
STATE OF HAWAII 1982

Type of Disease		Total	Private Physicians, Hospitals and Institutions	Public Clinics, Hospitals and Institutions	Military
Total Cases	Number	3,898	1,294	1,627	977
	Percent	100	33	42	25
Syphilis:					
Primary and Secondary		120	21	80	19
Early Latent		66	11	46	9
Late and Late Latent		5	3	1	1
Gonorrhea		3,706	1,259	1,500	947
Other Venereal Diseases		1	-	-	1

TABLE 5

TOTAL PRIMARY AND SECONDARY SYPHILIS CASES BY AGE
STATE OF HAWAII 1977 - 1982

Age in Years	1977	1978	1979	1980	1981	1982
Total All Ages	46	51	106	131	75	120
0 - 14	-	-	-	-	1	-
15 - 19	4	3	7	8	2	4
20 - 24	15	14	26	25	14	31
25 - 29	12	11	20	32	14	30
30 - 34	5	7	23	18	17	18
35 - 39	3	8	11	17	11	18
40 - 44	1	5	13	14	4	8
45 - 49	1	1	5	6	8	4
50 and Over	5	-	1	8	4	6
Unknown	-	2	-	3	-	1

TABLE 6

TOTAL GONORRHEA CASES BY AGE
STATE OF HAWAII 1977 - 1982

Age in Years	1977	1978	1979	1980	1981	1982
Total All Ages	4,256	3,409	4,373	4,383	4,289	3,706
0 - 14	20	11	18	18	7	13
15 - 19	733	510	711	620	548	472
20 - 24	1,633	1,269	1,714	1,758	1,761	1,441
25 - 29	940	737	908	870	892	808
30 - 34	410	386	438	436	508	448
35 - 39	190	172	206	210	208	186
40 - 44	96	90	98	99	103	102
45 - 49	38	32	46	58	51	37
50 and Over	65	55	52	58	54	47
Unknown	131	147	182	256	157	152

TABLE 7

NUMBER AND RATE PER 100,000 POPULATION OF TOTAL REPORTED GONORRHEA CASES
STATE OF HAWAII, 1969 - 1982

	15 - 19 YEARS			20 - 24 YEARS			25 - 29 YEARS			ALL AGES		
YEAR	CASES	POPULATION*[1/]	RATE	CASES	POPULATION[1/]	RATE	CASES	POPULATION[1/]	RATE	CASES	POPULATION[1/]	RATE
1969	147	69,797	210.6	480	78,120	614.4	176	57,649	305.3	996	750,228	132.8
1970	264	72,278	365.3	712	82,009	868.0	223	49,819	447.6	1,494	773,212	193.2
1971	383	74,380	514.9	888	84,435	1,051.7	326	61,559	529.6	1,975	795,702	248.2
1972	365	76,293	478.4	925	86,604	1,068.1	363	63,141	574.9	2,080	816,149	254.9
1973	482	77,813	619.4	987	88,133	1,119.9	488	64,311	758.8	2,408	832,147	289.4
1974	576	79,190	727.4	1,209	89,748	1,347.1	549	65,467	838.6	2,923	846,869	345.2
1975	649	77,048	842.3	1,279	94,221	1,357.4	646	68,951	936.9	3,126	864,900	361.4
1976	719	82,400	872.6	1,360	99,900	1,361.4	798	82,600	966.1	3,591	886,621	405.0
1977	733	83,200	881.0	1,633	100,810	1,619.9	940	83,400	1,127.1	4,256	894,700	475.7
1978	510	86,073	592.5	1,269	104,902	1,209.7	737	88,763	830.3	3,409	896,600	380.2
1979	711	87,848	809.4	1,714	107,150	1,599.6	908	91,369	993.8	4,373	914,800	478.0
1980	620	86,505	716.7	1,758	105,761	1,662.2	870	95,201	913.9	4,383	964,624	454.4
1981	548	86,446	633.9	1,761	105,682	1,666.3	892	95,287	936.1	4,289	964,691	444.6
1982	472	89,062	530.0	1,441	108,942	1,322.7	808	98,207	822.8	3,706	994,000	372.8

* Population data extrapolated by percent distribution from 1960 and 1970 Census of Hawaii and estimated total resident population as of July 1 from R & S Report, Issue No. 5 for the years 1969 - 1979. 1980 - 1981 population figures taken from the 1980 census. Population includes Armed Forces and their dependents in Hawaii, and residents temporarily absent, excludes visitors present.

[1/] Data shown only for computational convenience and not intended to imply accuracy beyond three significant figures.

The reported rates of Gonorrhea by selected age groups in Hawaii, according to their numerical ranking order are: 1) 20 - 24 years, 2) 25 - 29 years, and 3) 15 - 19 years.

TABLE 8

HAWAII RESIDENT GONORRHEA (GC) MORBIDITY BY YEAR (1973 - 1983),
CASE RATE PER 100,000 POPULATION, BY SEX, AND RESISTANCE TO PENICILLIN

YEAR	POPULATION[a/]	TOTAL GC	RATE GC	# FEMALE GC	# MALE GC	% MALE GC	TOTAL PPNG[b/]
1973	832,147	2,408	289.4	971	1,437	60%	-
1974	847,366	2,923	345.0	1,176	1,747	60%	-
1975	864,886	3,126	361.4	1,209	1,917	61%	-
1976	882,406	3,591	407.0	1,285	2,306	64%	10
1977	886,621	4,256	480.0	1,533	2,723	64%	22
1978	896,700	3,409	380.2	1,164	2,245	66%	26
1979	914,800	4,373	478.0	1,400	2,973	68%	63
1980	964,624	4,383	454.4	1,381	3,002	68%	162
1981	989,000	4,289	433.7	1,259	3,030	71%	184
1982	994,000	3,706	372.8	1,157	2,549	69%	99

[a/] Source: Hawaii State Department of Planning and Economic Development, "The Population of Hawaii, 1980: Final Census Results" Statistical Report 143, March 18, 1981.

[b/] Abbreviation for Penicillinase-producing *Neisseria gonorrhoeae*, the penicillin resistant form of gonorrhea.

TABLE 9

HAWAII INFECTIOUS SYPHILIS MORBIDITY TREND, BY YEAR (1973 - 1982) AND SEX

YEAR	P & S[a/]	EL[b/]	TOTAL	# FEMALES	# MALES	% MALES
1973	57	29	86	11	75	87%
1974	34	21	55	5	50	91%
1975	64	50	114	6	108	95%
1976	99	58	157	22	135	86%
1977	46	37	83	13	70	84%
1978	51	34	85	11	74	87%
1979	106	69	175	12	163	93%
1980	131	74	205	7	198	97%
1981	75	47	122	6	116	95%
1982	120	66	186	9	177	95%

[a/] P & S - Primary and Secondary stage of syphilis are the infectious stages of syphilis when the lesions are present.

[b/] EL - Early Latent stage of syphilis is an early stage of syphilis under one year's duration.

HANSEN'S DISEASE IN HAWAII

Hawaii has the highest incidence and prevalence rates for Hansen's Disease within the United States.

In 1982, the number of newly diagnosed cases added to the registry was 49. There were also 49 cases registered in 1981 (Table 1). By way of comparison, there were an average of 32 cases per year registered during the period 1976-1980.

Of the 49 new cases discovered in 1982, 47 were in foreign-born individuals and 2 were in "Hawaii-born" individuals[1] (Table 6 & 9). Of those whose place of birth was other than Hawaii, 35 came from the Philippines; 5 came from Samoa; and 4 came from Micronesia. Both "Hawaii-born" cases occurred in families with known Hansen's Disease.

Twenty seven cases had onset of illness before coming to Hawaii, while 21 cases developed symptoms in Hawaii (Table 10). Of the 27 cases with onset prior to living in Hawaii, 15 had been previously diagnosed while 12 had no previous diagnosis of Hansen's Disease. Of these 12, the median time interval between entry to Hawaii and diagnosis of disease was 14 months (range: 2 months to 56 months). Of the 21 cases with onset of symptoms in Hawaii the median time interval until diagnosis was 10.5 months (range: 2 months to 84 months).

In 1982, there were 10 paucibacillary cases (I,TT) and 39 multibacillary cases (BT-LL). Of the 39 multibacillary cases, 5 were borderline lepromatous (BL); and 13 were lepromatous (LL); the remaining 21 cases were borderline tuberculoid or mid-borderline disease.

Table 8 shows the age distribution of 1982 cases by age at time of registration in Hawaii. The distribution is bimodal with peaks in the 10-19 age group and the 70 and older age group has the highest age specific incidence.

Since early 1974, the policy followed by the program is to place all newly discovered cases of disease under outpatient treatment unless severe reactions or complications dictate that short-term hospitalizations are indicated. The program maintains surveillance over contacts of known cases and arranges for periodic examinations of these contacts. This allows for early diagnosis of disease in this at-risk population.

Inpatient care is available for those who require treatment and care for their chronic problems. Those requiring this type of care are mostly the older long-term patients, whose problems developed before the availability of effective drug therapy. Relapses and reactivity still occur among this inpatient group. Nearly all of these chronic care patients are residents of Kalaupapa Settlement, who by law are entitled to live out the rest of their lives in the Settlement and do so at their request. The inpatient facility on Oahu, Hale Mohalu at Leahi, is operated primarily to provide medical support for Kalaupapa and to care for any outpatient who develops a need for temporary inpatient care because of severe leprous reactions or complications.

[1] One case actually not born in Hawaii, but born in Germany to a Hawaii family

TABLE 1

TOTAL LEPROSY PATIENTS REGISTERED BY REGISTER STATUS AND YEAR
STATE OF HAWAII, 1976-1982

Register Status	1976	1977	1978	1979	1980	1981	1982
Total cases on register January 1	405	421	421	437	458	474	506
New cases added during the year	34	27	31	33	34	49	49
Formerly diagnosed cases returned to register	6	3	2	2	3	4	11
Removed during year	24	30	17	14	21	21	16
Deaths	6	5	5	5	8	6	4
Left the State	15	14	10	1	4	1	12
Discharged from further surveillance	3	11	2	8	9	14	0
Total cases on register December 31	421	421	437	458	474	506	550

TABLE 2

LEPROSY PATIENTS, KALAUPAPA REGISTRY STATUS
STATE OF HAWAII, 1977-1982

Register Status	1977	1978	1979	1980	1981	1982
Total patients-Kalaupapa Registry January 1.....	131	128	127	124	119	115
Deaths.....	3	1	1	5	4	3
Transfer from Registry	-	1	2	-	-	-
Transfer to Registry.....	-	1	-	-	-	-
Left the State.....	-	-	-	-	-	-
Total patients - Kalaupapa Registry December 31.....	128	127	124	119	115	112
Reactivated cases..... (criteria: positive skin smears)	32	14	5	5	6	6

TABLE 3

TOTAL CASES OF LEPROSY REGISTERED BY TYPE, LOCATION AND YEAR
STATE OF HAWAII, 1977-1982

Type and Location	1977	1978	1979	1980	1981	1982
Total cases on register December 31...	421	437	458	474	506	550
Medically released.....	417	434	458	474	506	550
At home.....	288	304	328	349	385	432
Kalaupapa.....	128	127	124	119	115	112
Hale Mohalu at Leahi.....	1	3	6	6	6	6
Hospital Care Days - Total	44,267	42,253	40,471	39,996	41,150	40,151
Kalaupapa	37,469	34,961	34,741	33,971	34,320	34,565
Hale Mohalu at Leahi	6,798	7,292	5,730	6,025	6,830	6,506
Total Contacts December 31	1,070	1,088	1,110	1,400	1,600	1,600

TABLE 4

NEW CASES OF LEPROSY BY AGE GROUP AND YEAR
STATE OF HAWAII, 1977-1982

Age in Years	1977	1978	1979	1980	1981	1982
All Ages.....	27	31	33	34	49	49
0 - 9	1	1	1	-	1	1
10 - 19	1	5	9	5	6	12
20 - 29	10	9	5	9	11	10
30 - 39	3	6	2	7	4	8
40 - 49	5	3	6	2	5	4
50 - 59	1	2	7	2	10	4
60 - 69	4	5	3	6	7	5
70 and over.....	2	-	-	3	5	5

TABLE 5

NEW CASES OF LEPROSY BY ISLAND OF RESIDENCE AND YEAR
STATE OF HAWAII, 1977-1982

Island	1977	1978	1979	1980	1981	1982
All Islands	27	31	33	34	49	49
Oahu	22	27	25	24	35	40
Hawaii	1	1	2	2	6	7
Maui	2	1	1	4	6	1
Kauai	2	1	5	4	2	1
Molokai	-	-	-	-	0	0
Lanai	-	1	-	-	0	0

TABLE 6

NEW CASES OF LEPROSY BY PLACE OF BIRTH AND YEAR OF REGISTRATION

STATE OF HAWAII, 1977-1982

	Total (%)	1977	1978	1979	1980	1981	1982
Hawaii	20 (9)	3	3	0	3	9	2
Samoa	38 (17)	7	10	5	5	6	5
Micronesia	5 (2)	0	0	0	0	1	4
Other Pacific Islands	4 (2)	1 [a]	1 [b]	0	1 [d]	0	1 [a]
Philippines	146 (65)	15	16	24	23	33	35
Vietnam	3 (1)	0	0	2	0	0	1
U. S. Mainland	5 (2)	1	1	1	2	0	0
Other	2 (1)	0	0	1 [c]	0	0	1 [e]
ALL	223 (100)	27	31	33	34	49	49

a Tonga
b Fiji
c Canada
d Marshall Island
e India

TABLE 7

INCIDENCE OF LEPROSY BY ISLAND OF RESIDENCE, 1982

ISLAND	1980 POPULATION*	# OF CASES	RATE PER 100,000
ALL ISLANDS	930,271	49	5.1
OAHU	730,171	40	5.2
HAWAII	91,221	7	7.6
MAUI	70,609	1	1.6
KAUAI	38,269	1	2.6
MOLOKAI	-	0	-
LANAI	-	0	-

*Source: "Population Characteristics of Hawaii, 1980" - Population Report, No. 13, Oct. 1981

TABLE 8

AGE-SPECIFIC INCIDENCE OF HANSEN'S DISEASE IN HAWAII, 1982

AGE GROUP	NO. OF CASES	POPULATION*	RATE PER 100,000
0 - 9	1	142,520	0.7
10 - 19	12	163,167	7.4
20 - 29	10	170,189	5.9
30 - 39	8	133,446	6.0
40 - 49	4	90,905	4.4
50 - 59	4	97,846	4.1
60 - 69	5	77,397	6.5
70+	5	46,329	10.8
ALL	49	930,271	5.3

TABLE 9

INCIDENCE OF HANSEN'S DISEASE IN HAWAII, HAWAII-BORN VERSUS FOREIGN-BORN, 1982

	NO. OF CASES	POPULATION*	RATE PER 100,000
Hawaii-born	2	581,300	0.3
Foreign-born	47	122,243	38.4
Other	0	226,728	0.0
ALL GROUPS	50	930,271	5.3

TABLE 10

NEW CASES OF LEPROSY BY PLACE OF RESIDENCE AT ONSET OF SYMPTOMS STATE OF HAWAII, 1982

RESIDENCE	NO. OF CASES
Hawaii	21
Philippines	19
Samoa	3
Micronesia	4
Vietnam	1
Unknown	1
	49

TABLE 11

SEX-SPECIFIC INCIDENCE OF HANSEN'S DISEASE IN HAWAII, 1982

	NO. OF CASES	POPULATION*	RATE PER 100,000
Males	27	462,584	5.8
Females	22	467,687	4.7
ALL	49	930,271	5.3

*Source: "Population Characteristics of Hawaii, 1980" Population Report, No. 13, Oct./1981

SUMMARY 1982

The Tuberculosis Branch provides out-patient tuberculosis treatment for Oahu at Lanakila Health Center Chest Clinic and Rural Clinics elsewhere on the island. In addition, the Branch runs a chest clinic for tuberculosis on Maui, with the assistance of the Public Health Nursing Branch, and consults with the District Health Officers, tuberculosis physicians on Hawaii and Kauai, and the Public Health Nursing Branch. Leahi, Kula and Samuel Mahelona Hospitals also provide tuberculosis support and treatment services. Tuberculosis screening examinations, including skin tests and x-rays are performed by the Branch at Lanakila Health Center. Skin testing is also performed by the Public Health Nursing Branch elsewhere on Oahu and in other counties, and x-rays in other counties are provided by various county-state hospitals. The Tuberculosis Branch also maintains the State Tuberculosis Register, and monitors the care of all cases of tuberculosis in the State. Examination of contacts of infectious cases and of infected children (without disease) is carried out cooperatively by the Tuberculosis and Public Health Nursing Branches.

In November, 1981, the requirements for yearly tuberculosis clearances for foodhandlers and school personnel were changed. Foodhandlers now require only a one-time clearance. Those working at fairs, carnivals and other temporary events no longer require clearances. School personnel clearances are now valid for two years. A policy change was also made restricting x-rays on individuals under age 35 to those with a positive tuberculin skin test. As a result of these changes, screening x-rays in Honolulu and Hawaii counties were reduced from 64,672 in 1981 (66,571 in 1980) to 36,120 in 1982. A modest increase in skin testing was given by the Tuberculosis Branch. While there was an apparent reduction of verified cases found through the 1982 survey from 1981 (11 vs. 24 cases), the number of suspects identified was greater, and a number of 1982 suspects may subsequently be verified as cases in 1983.

During 1982, the tuberculosis incidence in Hawaii showed an apparent increase from 197 cases (20.1/100,000) in 1981 to 252 (25.4/100,000). The Tuberculosis Case Register and Data Management Systems have been in the process of revision during 1980, 1981 and 1982, and variations in the time between the reporting of a patient as a tuberculosis suspect and actual counting as a verified case accounts for most of the apparent increase. Hawaii's tuberculosis incidence rate remains among the highest in the nation. As in previous years, over half (54.8%) of all new cases were foreign-born individuals with less than two years residence in Hawaii, and less than one-fourth of our cases were U.S. born as noted in Table 3. (Most cases residing in Hawaii between one and two years before verification by the Branch and counting were actually reported as suspects within a year of arrival from abroad.) Patients were found through a variety of sources, and reasons for examinations. as seen in Table 6. Aliens admitted with tuberculosis not considered active plus aliens with waiver of excludability for tuberculosis together accounted for the largest group - 41.7% of our cases. As in past years symptoms prompted examinations leading to diagnosis accounted for 29% of the cases. Thirty-nine patients or 15.5% of our cases were found through survey activities. Fourteen of these individuals resided in the State for less than one year. The tuberculosis incidence rate for U.S. born individuals (5.5 cases per 100,000) remains well below the national average of approximately 12/100,000.

The variation in rates among the counties (Table 2) reflects patterns of distribution in the State of new immigrants - a group with the astounding estimated incidence of 1,250 cases per 100,000 (100 cases from an estimated immigrant population of about 8,000 for the year).

There were only 2 tuberculosis deaths in 1982 (Table 10). Treatment for tuberculosis is highly effective and deaths now rarely occur, except when patients delay seeking medical attention until disease is far advanced.

TABLE 1

X-RAY SURVEY ACTIVITIES FOR TUBERCULOSIS BY COUNTY
STATE OF HAWAII, 1982

Geographic Area	Total Screening Films Taken	Retake Films Needed	X-rays Consistent with Current or Past Tuberculosis Infection					
			Total		Tuberculosis Diagnosed Current Disease		Tuberculosis Not Confirmed	
			Number	Rate*	Number	Rate*	Number	Rate*
State of Hawaii	36,120	2,105	293	8.1	11	.3	282	7.8
County of Honolulu	33,898	2,071	293	8.6	11	.3	282	8.3
Mobile Units	2,756	100	15	5.4	-	-	15	5.4
Lanakila Health Center	31,142	1,971	278	8.9	11	.4	267	8.6
Routine Survey	18,759	868	109	5.8	4	.2	105	5.6
Medical Referrals	983	112	21	21.4	1	1.0	20	20.3
Other Agency Referrals	8,874	782	120	13.5	4	.5	116	13.1
Tuberculin Testing Program - PHN	2,015	173	17	8.4	-	-	17	8.4
Extension of Stay of Non-Immigrant Visas	511	36	11	21.5	2	3.9	9	17.6
County of Hawaii	2,222	34	-	-	-	-	-	-

*Per 1,000 survey films

TABLE 2

TUBERCULOSIS CASES REPORTED BY GEOGRAPHIC AREA OF RESIDENCE
STATE OF HAWAII, 1982

Geographic Area of Residence	TUBERCULOSIS CASES REPORTED			
	1981		1982	
	Number	Rate a/	Number	Rate a/
State of Hawaii	197	20.1	252	25.4
County of Honolulu	171	22.1	193	24.9
City of Honolulu	100	27.0	131	35.3
Rest of Oahu	71	17.6	62	15.4
County of Hawaii	14	15.1	16	16.3
County of Maui b/	10	13.8	34	42.6
County of Kauai	2	5.1	9	22.1

a/ Per 100,000 total population

b/ Includes Kalawao County

TABLE 3

TUBERCULOSIS CASES BY PLACE OF BIRTH AND LENGTH OF RESIDENCE,
AND NUMBER OF PERSONS ADMITTED TO HAWAII WITH PERMANENT VISAS
STATE OF HAWAII, 1982

Birthplace or Time in Hawaii	1981			1982		
	Number	Percent	Rate a/	Number	Percent	Rate a/
Total	197	100.0	20.1	252	100.0	25.4
Foreign-Born a/	152	77.2	138.5	206	81.7	146.0
1 year or less	94	47.8	---	100	39.7	---
Over 1 year - 2 years	16	8.1	---	38	15.1	---
Over 2 years - 5 years	7	3.6	---	20	7.9	---
Over 5 years	32	16.2	---	45	17.8	---
Unknown time in State	3	1.5	---	3	1.2	---
Mainland-Born	4	2.0	1.7	11	4.4	5.1
Hawaii-Born	39	19.8	6.1	35	13.9	5.6
Birthplace Unknown	2	1.0	---	-	-	---
U.S. Born Rate (Hawaii + Mainland)	43	21.8	4.9	46	18.3	5.5
U.S. National Average Rate	...	...	11.9	...	...	N/A
Number of Persons Admitted to Hawaii with Permanent Visas c/	6,570			6,573		

a/ Rate - Cases per 100,000 total civilian population; rate for foreign-born, mainland-born and Hawaii-born are estimates.
b/ Foreign-born includes people coming to Hawaii from both American and Western Samoa.
c/ Persons admitted to Hawaii with permanent visas include only individuals whose port of entry is Honolulu.

TABLE 4

TUBERCULOSIS CASES BY LOCATION OF DISEASE
AND COUNTY OF RESIDENCE, STATE OF HAWAII, 1982

Location of Disease	State of Hawaii		COUNTY OF RESIDENCE							
			Honolulu		Hawaii		Maui*		Kauai	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Total	252	100.0	193	100.0	16	100.0	34	100.0	9	100.0
Pulmonary	225	89.2	171	88.6	15	93.8	33	97.1	6	66.7
Extra-pulmonary										
Pleural	6	2.4	6	3.1	-	-	-	-	-	-
Lymphatic	10	4.0	9	4.6	-	-	-	-	1	11.1
Cervical	9	3.6	8	4.1	-	-	-	-	1	11.1
Intra-thoracic	1	.4	1	.5	-	-	-	-	-	-
Other Lymphatic	-	-	-	-	-	-	-	-	-	-
Unknown	-	-	-	-	-	-	-	-	-	-
Bone and/or Joint	1	.4	-	-	-	-	-	-	1	11.1
Genitourinary	5	2.0	3	1.6	1	6.3	-	-	1	11.1
Miliary	3	1.2	3	1.6	-	-	-	-	-	-
Meningeal	-	-	-	-	-	-	-	-	-	-
Peritoneal	1	.4	-	-	-	-	1	2.9	-	-
Other	1	.4	1	.5	-	-	-	-	-	-
Site Not Stated	-	-	-	-	-	-	-	-	-	-

*Includes Kalawao County

TABLE 5

TUBERCULOSIS CASES BY SOURCE OF REPORT AND COUNTY OF RESIDENCE
STATE OF HAWAII, 1982

Source of Report	State of Hawaii		COUNTY OF RESIDENCE							
			Honolulu		Hawaii		Maui*		Kauai	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Total	252	100.0	193	100.0	16	100.0	34	100.0	9	100.0
Health Department	127	50.4	84	43.5	10	62.5	25	73.5	8	88.9
Private Physician	52	20.6	39	20.2	5	31.2	7	20.6	1	11.1
Tuberculosis Hospital or OPD	54	21.4	53	27.5	1	6.3	-	-	-	-
General Hospital or OPD	9	3.6	7	3.6	-	-	2	5.9	-	-
Tripler Army Hospital or VA	8	3.2	8	4.2	-	-	-	-	-	-
Death Certificate	-	-	-	-	-	-	-	-	-	-
Other	2	.8	2	1.0	-	-	-	-	-	-

*Includes Kalawao County

TABLE 6

TUBERCULOSIS CASES BY REASON FOR EXAMINATION AND COUNTY OF RESIDENCE
STATE OF HAWAII, 1982

Reason for Examination	State of Hawaii		COUNTY OF RESIDENCE							
			Honolulu		Hawaii		Maui*		Kauai	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Total	252	100.0	193	100.0	16	100.0	34	100.0	9	100.0
Health Department Survey	39	15.5	29	15.0	2	12.5	8	23.6	-	-
Contact & Source Investigation	7	2.8	4	2.1	1	6.3	2	5.9	-	-
Chest Clinic follow-up	4	1.6	4	2.1	-	-	-	-	-	-
Positive Reactor or Converter	2	.8	2	1.0	-	-	-	-	-	-
Extension of Stay, Non-Immigrant Visa	-	-	-	-	-	-	-	-	-	-
Aliens with Waiver of Excludability for Tuberculosis	33	13.1	29	15.0	2	12.5	2	5.9	-	-
Aliens with Tuberculosis Not Considered Active	72	28.6	59	30.6	3	18.8	9	26.5	1	11.1
Review of Other Visa Films & Evaluation of Foreign-Born	8	3.1	5	2.6	-	-	-	-	3	33.3
Symptoms of Illness	73	29.0	54	28.0	6	37.5	8	23.5	5	55.6
General Hospital & PMD X-ray Findings	8	3.2	5	2.6	-	-	3	8.8	-	-
Death Certificate	2	.8	-	-	1	6.2	1	2.9	-	-
Other	4	1.6	2	1.0	1	6.2	1	2.9	-	-
Unknown	-	-	-	-	-	-	-	-	-	-

*Includes Kalawao County

TABLE 7

TUBERCULOSIS CASES BY AGE, RACE AND SEX
STATE OF HAWAII, 1982

Age Group	ALL Races			Caucasian		Hawaiian and part Hawaiian		Chinese		Filipino		Japanese		Korean		Viet., Cam., Lao.		Other*	
	Total	Male	Female	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Total	252	156	96	7	6	1	2	13	7	87	57	12	7	13	9	19	6	4	2
0 - 4	3	2	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	1
5 - 9	2	2	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-
10 - 19	7	4	3	-	-	-	-	1	-	1	2	-	-	1	1	1	-	-	-
20 - 29	44	22	22	1	-	-	1	2	1	8	14	-	-	3	3	7	3	1	-
30 - 39	40	24	16	-	1	-	-	2	3	12	9	1	-	-	3	7	-	2	-
40 - 49	27	12	15	1	-	1	-	-	1	6	11	1	1	2	1	1	1	-	-
50 - 59	55	37	18	2	2	-	1	4	-	24	12	3	1	2	-	2	2	-	-
60 - 69	42	32	10	3	2	-	-	1	-	22	5	2	2	3	-	1	-	-	1
70 and Over	32	21	11	-	1	-	-	3	2	11	4	5	3	1	1	-	-	1	-

*Other: Mexican - 1, Black - 1, Tongan - 1, Samoan - 2, and Puerto Rican - 1.

TABLE 8

REACTIVATIONS REPORTED BY BACTERIOLOGY AND NUMBER OF REACTIVATIONS
BY COUNTY, STATE OF HAWAII, 1982

County	Total	Bacteriology			Number of Reactivations		
		Positive	Negative	Unknown	1	2	3
Total	17	11	6	-	16	1	-
Honolulu	12	9	3	-	11	1	-
Hawaii	4	1	3	-	4	-	-
Maui*	-	-	-	-	-	-	-
Kauai	1	1	-	-	1	-	-

*Includes Kalawao County

TABLE 9

REACTIVATIONS REPORTED BY AGE, SEX AND COUNTY, STATE OF HAWAII, 1982

Age Group	State of Hawaii			Honolulu		Hawaii		Maui*		Kauai	
	Total	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Total	17	8	9	5	7	2	2	-	-	1	-
Under 5	-	-	-	-	-	-	-	-	-	-	-
5 - 14	-	-	-	-	-	-	-	-	-	-	-
15 - 24	-	-	-	-	-	-	-	-	-	-	-
25 - 44	4	1	3	-	3	1	-	-	-	-	-
45 - 64	5	3	2	2	1	-	1	-	-	1	-
65 and Over	8	4	4	3	3	1	1	-	-	-	-

*Includes Kalawao County

TABLE 10

NUMBER OF TUBERCULOSIS DEATHS, AND NEW CASES REPORTED BY YEAR
STATE OF HAWAII, 1930, 1940, 1950, 1960, 1970, 1980, 1981 and 1982

Year	Deaths	New Cases Reported	Tuberculosis Cases
1930	379	1,060	1,060
1940	257	717	717
1950	114	743	339
1960	13	462	293
1970	13	733	270
1980	5	810	167
1981	4	885	197
1982	2	903	252

DENTAL HEALTH DIVISION

DENTAL HEALTH DIVISION

DEPARTMENT OF HEALTH ANNUAL REPORT
1982

SUMMARY

The Dental Health Division is responsible for conducting programs for the prevention and control of dental diseases. Other than carrying on planning and surveillance activities it conducts community programs aimed at preventing tooth decay and treating oral diseases that exist among groups of needy people.

Over the past few years, two dentist positions were lost as a result of Federal cut-backs. Added to budget restrictions in 1982, the program actually had a decrease of 3 dentists as compared to 1980. With a staff of five dentists this year, the program treated 2,581 patients or 77 fewer patients than last year. The number of extractions per 100 patients in the community-centered program (33.1 teeth extracted per 100 patients) was almost thirty percent higher than patients in the institutional program (24.2). More dentures were made in community programs also. Thirteen dentures per 100 patients were made in the community program as compared to 6 in the institutional program. Eighty-five percent of the institutional patients were treated to completion. The completion rate in the community clinics was one hundred percent of the patients seen.

Mass prevention of tooth decay is made available to Hawaii's school children through the topical fluoride application program conducted by the Dental Hygiene Branch. The program aims at reducing tooth decay among enrolled children by 25% or more. This method of preventing decay is being utilized in Hawaii due to the lack of acceptance of community water fluoridation. Without doubt fluoridation of water, with a potential of reducing decay as much as 65%, would be the most efficient way of preventing decay for Hawaii.

In Fiscal Year 1981-1982, a total of 72,699 children were provided applications of topical fluoride by dental hygienists. The program level on Hawaii showed an increase of 6.6% over the last fiscal year and was due primarily to the hire of a dental hygienist for the West Hawaii area (Kona). A 37.4% decline occurred on Kauai with the untimely resignation of a dental hygienist.

Dental health education was provided to 8,878 individuals through classroom talks and assemblies. This activity was in addition to chairside dental health instruction given to children as part of the topical fluoride application procedure. Included in the total number of individuals were classroom teachers who were given assistance in preparing to present dental health instruction to their students. These teachers received assistance on a one-to-one basis.

TABLE 1

SUMMARY OF DENTAL HEALTH SERVICES

STATE OF HAWAII, FISCAL YEAR 1981 - 1982

Type of Services	Number Served
Prevention and Detection	
Number of School Children Given Topical Fluoride Applications.....	72,699
Number of School Children Referred to Private Dentists.....	200,830
Number of School Children Given Dental Health Education.....	8,878
Treatment	
Number of Persons Treated in Institutions.....	1,059
Number of Persons Treated in Community-centered Facilities.....	1,522

TABLE 2

DISTRIBUTION OF DENTAL HYGIENE SERVICES BY COUNTIES
STATE OF HAWAII, FISCAL YEAR 1981-1982

Year and County	Number of Schools Served		Number of Children Served		
	Public	Private	Number of Dental Inspections and Follow-up	Number of Fluoride Applications	Dental Health Education
1980-1981 STATE	198	130	192,933	65,449	74,017
1981-1982 STATE	214	97	200,830	72,699	81,577
OAHU	163	51	178,795	61,823	70,104
HAWAII	28	24	16,536	7,866	8,364
KAUAI	11	21	1,857	1,845	1,853
MAUI-MOLOKAI-LANAI	12	1	3,642	1,165	1,256

TABLE 3

DENTAL TREATMENT STATUS OF CHILDREN IN 178 SCHOOLS BY AREAS
STATE OF HAWAII, 1981-1982

Area	Number of Schools Reported	Enrollment	Number of Children in grades Kindergarten - 12th			Percent Completed and Receiving Treatment
			Completed Treatment	Receiving Treatment	No Treatment During School Year	
STATE 1980-1981	191	127,422	9,742	35,944	81,736	35.9
STATE 1981-1982	178	128,072	7,062	39,528	81,482	36.4
HONOLULU CITY	56	37,471	2,879	11,255	23,337	37.7
RURAL OAHU	100	79,468	2,741	25,572	51,155	35.6
Central Oahu	39	31,500	907	10,381	20,212	35.8
Leeward Oahu	33	29,912	1,214	9,174	19,524	34.7
Windward Oahu	28	18,056	620	6,017	11,419	36.8
HAWAII	15	8,662	972	2,002	5,688	34.3
KAUAI	-	-	-	-	-	-
MAUI	7	2,471	470	699	1,302	47.3

TABLE 4

TREATMENT DATA

HOSPITAL DENTISTRY & COMMUNITY SERVICES BRANCH

STATE OF HAWAII, F.Y. 1981 - 1982

CLINICS	PATIENTS				SELECTED PROCEDURES							
	No. of New Patients	Adults	Minors	NO. COMPLETED TREATMENT	Examinations	Radiographs	Prophylaxis	Topical Fluoride Appl.	Fillings	Extractions	Crowns	Dentures
TOTAL	2,581	1,961	620	1,958	3,450	1,989	1,408	305	2,544	763	76	268
Institutional	1,059	1,038	21	1,059	1,517	390	720	15	482	256	15	66
Community-centered	1,522	923	599	899	1,933	1,599	688	290	2,062	507	61	202

ENVIRONMENTAL PROTECTION
AND
HEALTH SERVICES DIVISION

SUMMARY

The Pollution Investigation and Enforcement Branch of the Environmental Protection and Health Services Division is responsible for preserving and improving the quality of the environment throughout the State. Monitoring and enforcement programs are the principle vehicles through which pollution control rules are implemented in the fields of air; water, including all non-potable coastal and fresh waters; and solid waste.

The branch is involved in the following activities:

1. Determination of violations and enforcement of pollution control rules.
2. Monitoring of ambient conditions with air and water quality standards as control measures.
3. Inspection of conditions and operating procedures at landfills and sewer treatment plants.
4. Investigation of complaints by the public and conducting special studies in critical areas of environmental concern.

TABLE 1
SUMMARY OF AIR QUALITY DATA
STATE OF HAWAII, 1982
(24-Hour Sampling)

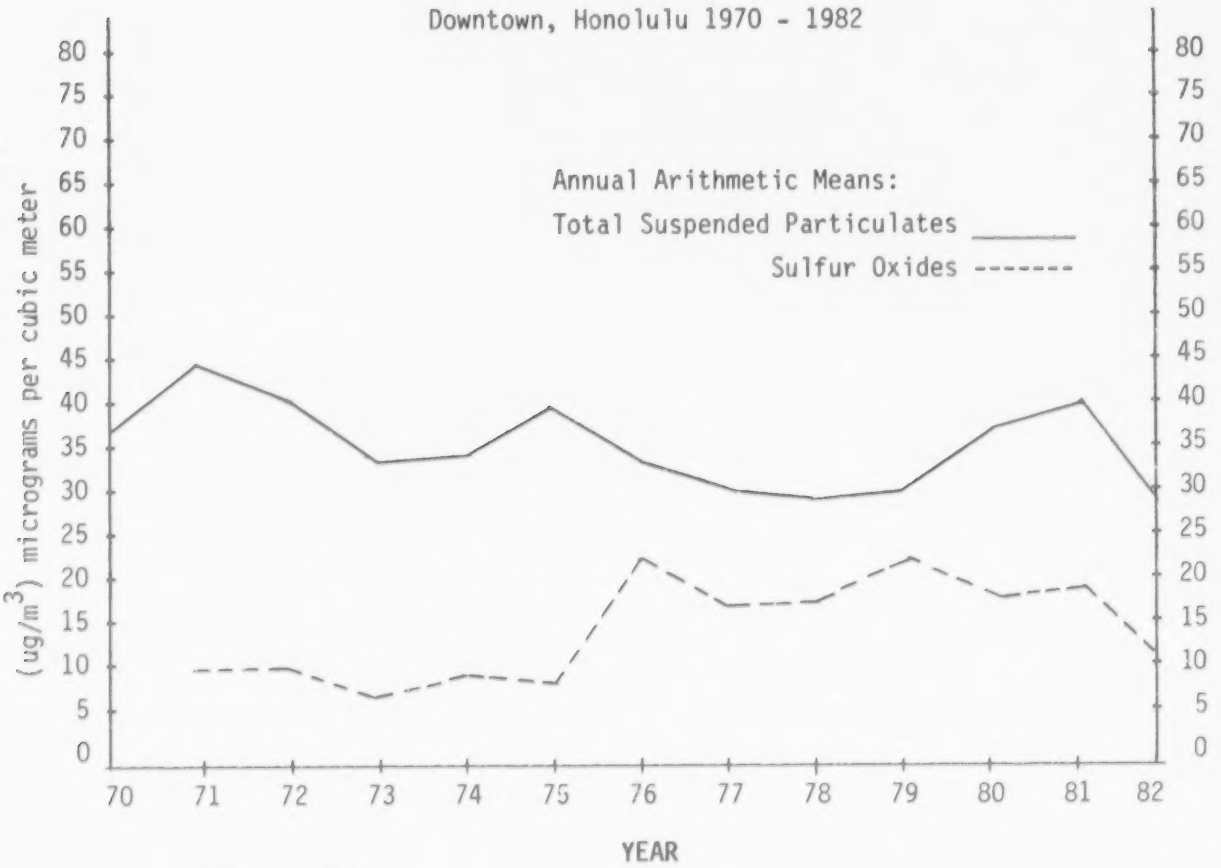
Sampling Stations	Micrograms Per Cubic Meter (ug/m^3)							
	Total Suspended Particulates				Sulfur Dioxide			
	No. of Samples	Annual Minimum	Annual Maximum	Arith. Average	No. of Samples	Annual Minimum	Annual Maximum	Arith. Average
Barbers Point - Oahu	52	15	63	41	55	<5	12	<5
Downtown, Honolulu - Oahu	55	11	42	29	50	<5	38	11
Kalihi Kai - Oahu	48	25	102	47	46	<5	10	<5
Pearl City - Oahu	53	19	54	31	43	<5	10	<5
Waikiki - Oahu	51	15	53	29	31	<5	<5	<5
Waimanalo - Oahu	53	12	64	27	...	...	...	...
Kahului - Maui	43	36	145	70	46	<5	143	14
Kihei - Maui	53	7	91	33	...	...	...	...
Hilo - Hawaii	45	8	31	16	45	<5	5	<5
Honokaa - Hawaii*	21	10	25	16	...	...	...	...
Lihue - Kauai	52	15	87	34	55	<5	<5	<5

*Site discontinued 8-3-82.

Source: Hawaii State Department of Health,
Pollution Investigation and Enforcement Branch, records

POLLUTION INVESTIGATION AND ENFORCEMENT BRANCH

FIGURE 1
TRENDS OF TOTAL SUSPENDED PARTICULATES
AND SO_X IN THE AMBIENT AIR



Date	TSP ug/m^3	SO_X ug/m^3
1970	37	-
1971	45	11
1972	41	11
1973	34	7
1974	35	10
1975	40	9
1976	34	23
1977	31	17
1978	29	18
1979	32	22
1980	37	18
1981	40	19
1982	29	11

Sampling is conducted approximately 46 ft. above ground on the roof of the State Health Department building, 1250 Punchbowl Street, Honolulu, Hawaii.

Primary and secondary National Ambient air quality standards have been promulgated by the federal government. Primary standards are designed to prevent adverse effects on public health, while secondary standards are designed to prevent adverse effects on public welfare, including the values, and soiling and deterioration of materials. The standards for total suspended particulates (TSP) and sulfur oxides (SO_X) for the annual mean values are as follows:

	TSP(ug/m^3)	SO_X(ug/m^3)
Primary standard	75	80
Secondary standard	60	

TABLE 2
WATER QUALITY ON PUBLIC BEACHES: 1981

Beaches	No. of Samples	*Fecal Coliform Density Geometric Means (MPN/100 ml)
Oahu:		
Ala Moana Park (Ewa)	21	11.0
Ala Moana Park (Center)	12	4.9
Ala Moana Park (Diamond Head)	12	5.8
Elks Club Beach	12	4.9
Ewa Beach	11	5.5
Ft. DeRussy Beach	12	18.5
Gray's Beach	21	6.0
Hanauma Bay	24	13.0
Kahana Park Beach	12	62.2
Kahanamoku Beach	12	3.3
Kahanamoku Lagoon (Diamond Head)	22	38.5
Kailua Bay Outfall Shoreline	12	5.3
Kailua Beach Park	12	5.7
Kokokahi Pier	14	48.5
Kuhio Beach	14	23.9
Public Bath Beach	21	3.3
Tavern Beach	13	7.3
Sand Island Pt. #1	12	4.1
Sand Island Pt. #2	12	8.7
Sand Island Pt. #3	12	2.7
Sand Island Pt. #4	12	26.5
Kauai:		
Brennecke Beach	4	2.0
Hanalei Bay Landing	4	60.1
Poipu Beach	4	2.5
Hawaii: (Hilo)		
Exit of Ice Pond	21	27.3
Leileiwi Beach Park	21	222.6
Onekahakaha	11	17.3
Puhi Bay #3	11	18.1

*The geometric mean standard for fecal coliform density is 200 per 100 ml.

TABLE 2 (Cont'd.)
WATER QUALITY ON PUBLIC BEACHES: 1981

Beaches	No. of Samples	*Fecal Coliform Density Geometric Means (MPN/100 ml)
Hawaii: (Kona)		
Hapuna Beach	6	33.0
Kahaluu Beach	6	2.3
Kealakekua Bay (off curio stand)	6	2.3
Kealakekua Bay (off canoe landing)	6	2.3
Magic Sands Beach	6	8.0
Puako Beach Lots (middle)	6	29.6
Puako Beach Lots (far end)	6	74.0
Spencer Beach Park	6	14.6
Maui:		
Hukilau Hotel Shoreline	12	2.9
Kahului Breakwater	12	3.1
Wailuku Breakwater	12	3.4

*The geometric mean standard for fecal coliform density is 200 per 100 ml.

Source: Hawaii State Department of Health,
Pollution Investigation and Enforcement Branch, records

CONSTRUCTION GRANTS PROGRAM

The major function of the Wastewater Treatment Works Construction Grants Branch is to administer the Construction Grants Program for public wastewater treatment works pursuant to P.L. 92-500. Under the said program, 75 percent of the cost of constructing public treatment facilities are financed with federal funds, 10 percent by state funds and 15 percent by county funds. A total of $12,974,906 of federal funds were awarded to wastewater treatment works projects in Hawaii during 1982. The major objectives of the construction of public wastewater treatment works are to abate the pollution of the State's waters and to eliminate public health hazards caused by inadequate sewage disposal systems.

The administering of the program includes review of grant applications, facilities plans, environmental impact statements, infiltration-inflow analysis, construction plans and specifications, payment requests, construction activities contracts and other technical documents. A project is broken down into three (3) steps which include Step 1 (development of a facilities plan), Step 2 (development of construction plans and specifictions) and Step 3 (construction).

The following statistics indicate federal grants awarded to various projects (Table 1) and projects which have been completed during the year 1982 (Table 2):

TABLE 1

GRANTS AWARDED FOR:	PROJECT STEP	FEDERAL GRANT AMOUNT
Ahuimanu Force Main, Section 1	3	2,484,337
Ahuimanu Force Main, Section 2	3	2,401,969
Ahuimanu Sewage Pump Station	3	4,678,452
Kaunakakai Sewage Treatment Plant	3	1,106,013
Halawa Intereceptor Sewer	3	782,325
Honouliuli, Increment 3	3	840,831
North Oahu Facilities Plan	1	3,750
Wailua Sewage Treatment Plant	3	538,185
Lihue Wastewater Treatment Plant, Phase 2	3	139,044
	Total	$12,974,906

TABLE 2

COMPLETED PROJECTS	PROJECT STEP
Lihue Collector Sewers	3
Ala Moana Force Main Section 2	3
Honouliuli, Increment 2	3
Ewa East Interceptor Sewer	3
Ewa Collector Sewer	3
Ewa West Interceptor Sewer	3
Pearl City Force Main, Sec. 1A	3
Papaikou Wastewater Treatment Plant	3
Hanapepe Interceptor Sewer	3
Honouliuli Wastewater Treatment Plant, Increment 2	3
Ewa Force Main, Sec. 1	3
Ewa Force Main, Sec. 2	3
Ewa Force Main, Sec. 3	3
Lahaina WTW Injection Wells	3

ENVIRONMENTAL PERMITS BRANCH

The Environmental Permits Branch administers permit and registration systems for air, water and solid waste programs by reviewing and evaluating applications and engineering reports and plans.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMITS SECTION

Under federal and state laws, no person can discharge pollutants into a waterway from a point source unless a permit is obtained from the Department, which regulates what may be discharged and how much. Point sources include private and public wastewater treatment facilities, manufacturing plants, agriculture, wholesale, retail and other commercial establishments. Those obtaining permits comply with firm, legally enforceable requirements to meet applicable state laws. At present, the Department administers 120 NPDES permits.

The Department currently administers an interim General Pretreatment Program for EPA. This program controls wastewater discharges into municipal sewer systems. This program was delegated to the City and County of Honolulu during 1982.

Another program administered by the Department is the Permit to Operate Private Wastewater Treatment Works (WTW) that discharge pollutants to subsurface or irrigation systems. The Department currently enforces 188 permits over private WTW's. This program will eventually lead up to the delegation of another joint federal-state program for regulating wastewater discharge into the ground for the purposes of protecting groundwater resources. There are an estimated 500 injection wells in the State which transmit wastewater of some kind into groundwaters. The proposed Underground Injection Control Program will determine and control any threat these wastewaters will have on our present and future drinking water resources.

Table 1

Permits Issued or Renewed (1982 Calendar Year)

NPDES	15
Permits to Operate Private STP's	12
Zones of Mixing	10
NPDES Permits Modified	4

AIR POLLUTION CONTROL AND SOLID WASTE MANAGEMENT PERMITS SECTION

Air and Solid Waste permits are also administered by the Environmental Permits Branch. Air permits are issued to stationary sources of air pollution. Its primary objective is to safeguard our State Ambient Air Quality Standards. Solid waste permits are issued to sanitary landfills, open dumps and processing facilities such as reclamation plants, transfer stations and incinerators so as to assure that state's standards are met by these facilities.

Table 2

Air Pollution Control (1982 Calendar Year)

Authority to Construct Permits Issued	41
Permit to Operate Issued	78

Solid Waste Management

Permits Issued	9

FOOD AND DRUG BRANCH

The Food and Drug Branch in the Environmental Protection and Health Services Division protects the health of the consumer by ensuring that foods are safe, pure and wholesome; drugs and therapeutic devices are safe and effective; cosmetics are harmless; and that all these products are honestly and informatively labeled, packaged, and advertised; controlled substances, including narcotics, are distributed, prescribed, administered, and dispensed in accordance with rigid control requirements so as to avert their illegal diversion. The Branch is also empowered to require that certain hazardous household products carry adequate label warnings for the safety of children and to be packaged with safety closures.

The objectives of the Food and Drug Branch are carried out by two sections under its jurisdiction: the Food and Drug Section and the Investigations and Narcotics Control Section.

The Food and Drug Section administers the Hawaii Food, Drug and Cosmetic Act; the Hawaii Poison Prevention Packaging Act; the regulations on milk, frozen desserts, and poisons; while the Investigations and Narcotics Control Section administers the Uniform Controlled Substances Act.

The Food and Drug Section has a staff of five field inspectors and one supervisor. This section operates under the administration of the Chief, Food and Drug Branch who retired at the end of the year. Its primary responsibilities involve the inspecting of food and drug establishments, investigating consumer complaints and collecting various specimens for examination either in the field or by the Laboratories Branch for conformity with purity, labeling, and identity standards. A part of this section is involved in the shellfish sanitation program. Its primary duty is the enforcement of the regulations on shellfish.

Table 1 shows various food samples examined by the Food and Drug Section. The number of samples collected were drastically reduced from past years due to the emphasis in the heptachlor-in-milk problem.

Table 2 shows the amount of samples collected and tested in milk and milk products and related foods for heptachlor epoxide residues. Pineapple plants had been sprayed with the insecticide heptachlor to control ants. The tops of "green chop" of the pineapple were used by the dairy industry as an animal feed before the heptachlor had broken down sufficiently. This contamination resulted in heptachlor epoxide residues in the milk above the Federal and State action level 0.3 ppm (later reduced to 0.1 ppm on October 26, 1982). Heptachlor epoxide levels gradually decreased in milk and milk products and were not noted in samples collected from the neighbor islands where green chop was not used.

Table 3 relates the number of milk and milk product samples collected and tested by county for bacterial levels, physico-chemical parameters (milkfat, solids-not-fat), and inhibitory substances.

Table 4 on frozen desserts also revealed that activities in 1982 were sharply curtailed on Oahu. Samples of frozen yogurt collected sharply decreased due to the closing of many of the outlets serving this product.

Table 5 shows the amount of commodities witnessed destroyed. As in past years, Oahu had the bulk of commodities destroyed. Amounts destroyed increased from the past year largely due to the disposal of milk and milk products with excessive levels of heptachlor and spoilage of foodstuff caused by Hurricane Iwa.

Table 6 shows other selected activities of the Food and Drug Section: the number of complaints investigated remained about the same as in the past year. The number of labels reviewed were drastically reduced due to the emphasis on heptachlor contamination.

TABLE 1

SUMMARY OF SAMPLES EXAMINED BY THE FOOD AND DRUG SECTION ON OAHU
STATE OF HAWAII, 1982

Samples	Total Collected	Acceptable	Not Acceptable
Alimentary Paste Products	0	0	0
Bakery Products	0	0	0
Poi, fresh	0	0	0
Poi, ready	9	7	2 a/
Condiments	0	0	0
Hamburger/ground beef	44	41	3 b/
Beverages	0	0	0
Bottled Water	0	0	0
Filth Samples	0	0	0
Pickled Vegetables	0	0	0
Fresh Vegetables (pesticides)	112	105	7 c/
Shellfish Samples			
1. From market	2	2	0
2. From approved growing areas	10	10	0
Water Samples from approved growing areas	18	18	0

a/ percent solids below standards
b/ percent fat above stated amount
c/ results above action levels; the number of unacceptable samples include retested samples.

TABLE 2

SAMPLES AND ANALYSES OF VARIOUS PRODUCTS FOR HEPTACHLOR EPOXIDE

County	Samples Collected	Violations*
Honolulu		
Raw milk	801	124
Homogenized	698	13
Other milk products	973	16
Frozen desserts	178	6
Pineapple/Pineapple Juice	19	0
Ground Beef	2	0
Kauai		
Homogenized	32	0
Maui		
Homogenized	32	0
Hawaii		
Homogenized	32	0
Total	2767	159

*Action level .3 ppm until October 25, 1982; reduced to .1 ppm; samples found violative led to the retesting of commingled raw milk samples as well as products manufactured from that raw milk. In addition, violative dairies were tested routinely to determine when the milk could be sold.

TABLE 3

SAMPLES AND ANALYSES OF MILK AND MILK PRODUCTS BY COUNTY
STATE OF HAWAII, 1982

County and Grade of Milk	Samples Collected		Bacteriological		Chemical		Coliform		Inhibitory	
		Viol.	Total	Viol.	Total	Viol.	Total	Viol.	Total	Viol.[b]
Honolulu County										
Raw milk	276	80	260	57	85	8	0	0	275	15
Homogenized	89	10	31	1	10	0	30	1	89	8
Other Milk Pr.*[a]	480	43	168	8	55	0	404	24	203	11
Hawaii County										
Raw milk	84	51	62	20	68	2	0	0	82	29
Homogenized	26	0	26	0	26	0	26	0	26	0
Other Milk Pr.*[a]	139	19	135	2	118	4	139	5	135	8
Maui County										
Raw milk	27	12	21	5	16	0	0	0	20	7
Homogenized	7	0	7	0	6	0	7	0	6	0
Other Milk Pr.*[a]	37	7	34	1	11	0	31	5	29	1
Kauai County										
Raw milk	13	3	11	3	10	0	0	0	13	0
Homogenized	11	1	11	0	14	0	11	1	12	0
Other Milk Pr.*[a]	41	2	37	1	27	0	38	1	35	0
State Totals										
Raw milk	400	146	354	85	179	10	0	0	393	51
Homogenized	133	11	75	1	56	0	74	2	133	8
Other Milk Pr.*[a]	697	71	374	12	211	4	612	35	402	20

a/ * Other Milk Products include recombined milk, imitation milk, 2% milkfat milk, half and half, skim milk, yogurt, and sour cream.

b/ The number of violations include: violative samples; re-tested violative samples; and all products that may have been made from the violative samples.

TABLE 4

SAMPLES AND ANALYSES OF FROZEN DESSERTS BY COUNTY
STATE OF HAWAII, 1982

Type of Frozen Dessert	All Counties		Honolulu		Hawaii		Maui		Kauai	
	Total	Viol.	Total	Viol.	Total	Viol.	Total	Viol.	Total	Viol.
Ice Milk	450	165	133	48	149	51	35	18	133	48
Ice Cream	28	4	3	1	17	1	5	1	3	1
Sherbet	2	0	0	0	0	0	2	0	0	0
Frozen Yogurt	29	2	7	0	7	0	8	2	7	0
Total	509	171	143	49	173	52	50	21	143	49

TABLE 5

FOODS AND DRUGS CONDEMNED AND DESTROYED BY COUNTY
STATE OF HAWAII, 1982

FOODS

County	Weight in Pounds	Retail Value
Honolulu	409,947	$158,979
Hawaii	68,538	24,637
Maui	41,954	1,678
Kauai	2,861	54,842
Total	462,824	$228,041

DRUGS & MEDICAL DEVICES

Honolulu	7,340	$ 40,379

TABLE 6

SELECTED ACTIVITIES OF THE FOOD AND DRUG SECTION
STATE OF HAWAII, 1982

Activities		Number
Complaints Investigated		181
Agency Assistance		22
Label Reviews		56
Total Poison Permits Issued		1020
Honolulu County	661	
Hawaii County	201	
Kauai County	23	
Maui County	135	

SUMMARY - CALENDAR YEAR 1982

The principal activity of the Sanitation Branch is to maintain a sanitary and healthful environment for the people in Hawaii by providing inspectional, educational and enforcement activities. Sanitarians investigate and abate insanitary conditions and health hazards, prevent the creation of public health nuisances and minimize insanitary conditions which may be a threat to health. Inspections are made of food and food service establishments; milk plants, frozen dessert manufacturing plants; dairy farms; dwelling units, hotels and other multi-dwelling units; public swimming pools; barber shops; mortuaries and cemeteries; laundries; private sewage disposal systems and various other premises for certificates of approval, clearances for licensure or for permit issuance; or for compliance with public health standards and requirements.

The total number of inspections showed a decrease from 55,851 in 1981 to 52,883 in 1982. The total number of insanitary conditions abated decreased from 13,133 in 1981 to 12,593 in 1982. This decrease was due to the above normal vacancies in the program. In addition, many manhours were expended by the sanitarians in handling the recalls of canned salmon and in the collection of milk samples during the heptachlor crisis.

The Drinking Water Program of the Sanitation Branch is responsible for regulating the State's 159 known "public water systems" as defined by Chapter 20, Title II, Administrative Rules. The Program includes such functions as the surveillance and monitoring of these systems, provisions of technical assistance to water system owners and operators, the review for approval/disapproval of plans and specifications for new potable water sources and new or modified distribution systems, maintenance of laboratory capability to perform routine and special analyses, enforcement actions to require systems to comply with regulations, administration of a cross connection control and backflow prevention program and maintenance of an emergency response program as well as other related functions.

TABLE 1

AVERAGE DAILY PRODUCTION OF PASTEURIZED MILK BY ISLAND
STATE OF HAWAII,
YEAR ENDING 1982

Island	Average Daily Production (Pounds)
Oahu	327,844
Hawaii	64,500
Maui County*	44,200
Kauai	53,125.06

*Includes the islands of Maui, Molokai, and Lanai

No retail raw milk is sold for human consumption in the State.

2.15 pounds ≒ 1 quart

TABLE 2

DAIRIES AND MILK PLANTS AS OF DECEMBER 31, 1982
BY TYPE AND ISLAND

TYPE	TOTAL	Island			
		Oahu	Hawaii	Maui County*	Kauai
Pasteurization Plants	3		1	1	1
Milk Plant Producers	7		5	1	1

*Includes the islands of Maui, Molokai and Lanai

TABLE 3

DISTRIBUTION OF SANITARY INSPECTIONS BY TYPE AND ISLAND
STATE OF HAWAII, 1982

TYPE OF INSPECTION	Total	ISLAND			
		OAHU	HAWAII	MAUI COUNTY*	KAUAI
Total Inspections	60,013	34,353	9,137	9,393	7,130
Dwellings	4,971	3,345	100	480	1,046
Apartments	762	620	10	132	-
Hotels	633	303	40	210	80
Lodging Houses	32	31	-	1	-
Tenements	91	91	-	-	-
Boarding Houses	35	24	10	-	1
Adult Family Boarding Homes	352	299	31	13	9
Care Homes	424	334	51	19	20
Day Care Centers	488	309	89	45	45
Kindergartens, Schools	791	495	47	175	74
Institutions, Hospitals	703	64	151	477	11
Funeral Establishments, Cemeteries	54	26	9	14	5
Liquor Dispensers	2,842	2,236	132	331	143
Grocery Stores	5,467	3,188	482	1,164	633
Markets	2,043	1,338	195	404	106
Bottling Plants, Canneries	31	13	2	16	-
Food Manufacturers	3,210	2,245	354	456	155
Restaurants, Cafeterias, Drive-Ins, Lunch Counters, Etc.	13,585	10,691	699	1,394	801
Food Sales	1,429	562	242	454	171
Lunch Wagons	1,127	1,006	52	48	21
Food Peddlers	134	105	7	19	3
Dairy Farms, Milk Plants	1,171	647	310	118	96
Frozen Dessert Plants	109	90	7	1	11
Dispensing Freezers, Shave Ice Outlets	462	149	116	75	122
Vending Machine Operations	9	6	2	1	-
Warehouses	767	532	15	172	48
Hog Ranches, Poultry Farms, Feed Lots	170	145	4	3	18
Slaughterhouses	27	2	4	6	15
Vegetable Gardens	42	-	8	2	32
Flower Gardens	12	11	-	-	1
Barber Shops, Beauty Parlors	414	343	19	28	24
Massage Parlors, Reducing Salons	55	23	10	16	6
Tattoo Shops	27	20	-	7	-
Clothes Cleaners, Laundries	100	60	-	34	6
Secondhand Dealers	1	-	-	1	-
Mattress Makers	4	1	-	3	-
Amusement Places, Parks, Playgrounds	583	291	51	224	17
Recreational Trailer Camps	7	1	6	-	-
Industrial Plants, Small Shops, General Merchandise	1,297	291	29	747	230
Swimming Pools	963	638	148	100	77
Household Sewage Disposal Systems, House Drain, Sewer	4,533	678	2,152	986	717
Subdivisions	687	178	127	56	326
Unclassified	9,369	2,922	3,426	961	2,060

*Includes the islands of Maui, Molokai and Lanai

TABLE 4

SUMMARY OF ACTIVITIES BY SANITARIANS
STATE OF HAWAII, 1982

1. A INSPECTION, INVESTIGATION, ENFORCEMENT	Oahu	Hawaii	Maui County*	Kauai	Total
1. Insanitary Practices and Hazardous Conditions Abated	1			6	7
Structures Repaired	100	3	1	55	159
Plumbing, Fixtures Repaired	24	5	12	8	49
Water Supply Violations Corrected	21	16	7	22	66
Sewage Disposal Violations Corrected	143	180	479	42	844
Ventilation Corrected	5	9	1	7	22
Floor, Walls, Ceiling Cleaned	34	2	8	4	48
Streets, Alleyways, Yards, Cleaned of Rubbish, etc.	66	11	8	1	86
Garbage Containers, Conveyances Corrected	43	6	4	2	55
Domestic Animals Poultry Nuisances Abated	128	2	24	2	156
Vermin, Rodent, Birds, Animals Nuisances Abated	35	6	6	5	52
Food Equipment Replaced, Repaired	45	1	-	-	46
Food Equipment Utensils Cleaned	10	-	6	1	17
Food Equipment, Utensils Sanitized	15	-	1	2	18
Food Equipment, Utensils Properly Stored, Handled	15	2	1	-	18
Food Storage, Display, Handling Corrected	8	-	8	-	16
Insanitary Personnel Practices Abated	9	1	1	2	13
Food Handlers' Certificate Obtained	-	-	-	-	-
Toilet Room and Facilities Cleaned, Repaired	54	6	8	4	72
Barber, Beauty Shop Instruments Cleaned, Sanitized	7	-	-	1	8
Swimming Pool Disinfected; pH Maintained	69	6	7	14	96
Depth Marking Violations Corrected	12	2	-	-	14
Swimming Pool Safety Violations Corrected	52	10	1	9	72
Bacteriological Standards Met	1	3	2	8	14
Abnormal Milk Excluded	2	-	1	-	3
Milking Procedures Corrected	4	-	-	-	4
Thermometric Controls in Compliance	15	-	1	-	16
Pressure Differential of Pasteurizer Met	1	-	-	-	1
Holding Time of Pasteurizer Met	-	-	-	-	-
Required Data on Recorder-Controller Charts Furnished	1	-	1	-	2
Miscellaneous Nuisances Abated	202	31	63	96	392
Total Corrections Made	1,122	302	651	232	2,307

TABLE 4 (Continued)

I A. INSPECTION, INVESTIGATION, ENFORCEMENT	Oahu	Hawaii	Maui County*	Kauai	Total
2. Field Test for Cl, pH, Alk., Sed., Abnormal Milk, Pasteurization Equipment, etc.	695	1,816	1,197	673	4,381
3. Samples Collected: Milk, Food, Water, Swabs, etc.	743	2,285	918	903	4,849
4. Complaints Investigated	1,396	158	229	123	1,906
Warnings Given	558	166	53	41	818
Verbal Orders Given	867	271	766	255	2,159
Verbal Orders Finished	863	283	651	249	2,046
Total Verbal Orders Unfinished	480	179	265	37	961
Written Orders Given	86	-	9	10	105
Written Orders Finished	65	1	8	9	83
Total Written Orders Unfinished	33	-	3	4	40
5. Certificates Issued	668	29	152	67	916
6. Permits Issued	90	8	78	83	259
7. Permits Degraded	3	-	-	-	3
8. Permits Suspended, Revoked	-	-	-	2	2
9. Prosecutions	2	-	-	-	2

EDUCATION	Oahu	Hawaii	Maui County*	Kauai	Total
1. Food, Milk Handlars' Class	6	-	1	1	8
2. Workshops, Meetings	97	85	6	39	227
3. In-Service Training	58	13	2	4	77

TECHNICAL REVIEW AND CONSULTATION	Oahu	Hawaii	Maui County	Kauai	Total
	985	703	213	2,919	4,820

*Includes the islands of Maui, Molokai and Lanai

TABLE 5

DAILY SUMMARY OF FOOD SERVICE AND FOOD ESTABLISHMENTS
STATE OF HAWAII,

INSPECTION, INVESTIGATION, ENFORCEMENT	TOTAL	Oahu	Hawaii	Maui County*	Kauai
A. Insanitary Practices and Hazardous Conditions Abated	3	-	-	3	
1. Food Source, Wholesome	318	97	60	147	14
2. Food--Original Container, Properly Labeled	231	189	13	16	13
3. Potentially Hazardous Food Meets Temperature Requirements	352	107	25	85	135
4. Facilities to Maintain Product Temperature	114	15	6	31	62
5. Thermometers Provided and Conspicuous	380	230	7	111	32
6. Potentially Hazardous Food Properly Thawed	120	84	6	18	12
7. Unwrapped and Potentially Hazardous Food Not Re-served	12	9	2	1	-
8. Food Protection--Storage, Preparation, Display, Service Transportation	1,248	906	65	207	70
9. Handling of Food (Ice) Minimized	107	72	3	32	-
10. Food (Ice) Dispensing Utensils Properly Stored	231	184	4	30	13
11. Personnel Infections, Communicable Disease Restricted; TB Clearance Card	87	58	8	19	2
12. Hands Washed and Clean, Good Hygienic Practice	103	79	5	8	11
13. Clean Clothes, Hair Restraints	343	312	11	4	16
14. Food Contact Surfaces: Designed, Constructed, Maintained, Installed	463	387	26	41	9
15. Non-Food Contact Surfaces: Designed, Constructed, Maintained, Installed	430	368	28	27	7
16. Dishwashing Facilities: Designed, Constructed, Maintained, Installed	164	132	8	7	17
17. Accurate Thermometers	24	10	5	3	6
18. Single-Service Articles, Storage, Dispensing	149	139	2	4	4
19. No Re-Use of Single-Service Articles	7	4	-	1	2
20. Pre-Flushed, Scraped, Soaked	2	1	-	-	1
21. Wash, Rince Water: Clean, Proper Temperature	17	11	2	4	-
22. Sanitization Rincse: Clean, Temperature, Concentration	233	120	4	59	50
23. Wiping Cloths: Clean, Use Restricted	54	52	1	1	-
24. Food-Contact Surfaces of Equipment and Utensils Clean	1,077	967	38	44	28
25. Non-Food Contact Surfaces of Equipment and Utensils Clean	1,379	1,249	77	45	8
26. Storage, Handling of Clean Equipment-Utensils	231	191	5	39	5
27. Water Source, Safe: Hot & Cold Under Pressure	95	79	3	-	13

TABLE 5 (Continued)

A.1 INSPECTION, INVESTIGATION, ENFORCEMENT	TOTAL	Oahu	Hawaii	Maui County*	Kauai
28. Sewage and Waste Water Disposal	59	48	4	1	6
29. Plumbing—Installed, Maintained	212	178	9	15	10
30. Plumbing--Cross-Connection, Back Siphonage, Backflow	98	81	1	9	7
31. Toilet & Handwashing Facilities—Number, Convenient, Accessible, Installed.	167	83	7	55	22
32. Toilet Rooms, Self-Closing Doors, Good Repair, Clean Hand Cleanser, Sanitary Hand-Drying, Proper Waste Receptacles	698	585	12	57	44
33. Garbage & Refuse Disposal Receptacles Covered: Adequate No.,	160	92	7	56	5
Insect/Rodent Proof, Clean	45	37	1	7	-
34. Outside Storage Area, Enclosures Properly Constructed, Clean: Incineration Controlled					
35. Presence of Insects, Rodents—Outer Openings Protected, Turtles, Other Animals, Proper Insecticides	819	622	41	131	25
36. Floors: Constructed, Drained, Clean, Good Repair, Covering Installation, Dustless Cleaning Method	604	505	40	41	18
37. Walls, Ceiling, Attached Equipment: Constructed, Good Repair, Clean, Surfaces, Dustless Cleaning Methods	785	627	51	75	32
38. Lighting Provided as Required	116	95	2	16	3
39. Rooms and Equipment—Vented as Required	76	58	8	2	8
40. Dressing Rooms—Rooms Clean, Lockers Provided, Facilities Clean	47	44	3	-	-
41. Toxic Items Properly Stored, Labeled, Used	545	480	11	21	33
42. Premised: Maintained, Free of Litter, Unnecessary Articles, Cleaning/Maintenance Equipment Properly Stored, Authorized Personnel	473	303	18	125	27
43. Complete Separation from Living/Sleeping Quarters, Laundry	11	8	-	3	-
44. Clean, Soiled Linen Properly Stored	49	42	7	-	-
Total Corrections Made	12,947	9,940	636	1,601	770
B. Field Test for Cl, pH, Alk., etc.	1,758	228	222	1,300	8
C. Samples Collected: Food, Water, Swabs, etc.	1,396	1,219	174	1	2
D. Complaints Investigated	864	691	81	65	27
E. Orders and Warnings	7	7	-	-	-
Warnings Given	3,469	2,845	381	146	97
Verbal Orders Given	11,404	7,787	499	2,399	719
Verbal Orders Finished	10,311	7,596	495	1,601	619

TABLE 5 (Continued)

1. INSPECTION, INVESTIGATION, ENFORCEMENT	TOTAL	Oahu	Hawaii	Maui County*	Kauai
Total Verbal Orders Unfinished	7,372	5,145	804	1,077	346
Written Orders Given	31	29	-	1	1
Written Orders Finished	30	26	2	1	1
Total Written Orders Unfinished	34	16	17	-	1
F. Certificates Issued	4,902	4,217	61	612	12
G. Permits Issued	1,333	785	391	35	122
H. Permits Suspended, Revoked	15	10	4	-	1
I. Prosecutions	7	7	-	-	-
2. EDUCATION					
A. Food Handlers' Class	69	28	30	1	10
B. Workshops, Meetings	123	105	16	1	1
C. In-Service Training	136	134	1	-	1
3. TECHNICAL REVIEW AND CONSULATION PROVIDED	2,046¼	437¼	658	.124	827

*Includes the islands of Maui, Molokai and Lanai

TABLE 6

PUBLIC WATER SYSTEMS*
STATE OF HAWAII, 1982

SYSTEMS	Total	ISLAND					
		Hawaii	Maui	Molokai	Lanai	Oahu	Kauai
Municipal Systems	50	19	8	3	-	6	14
Private Systems	68	17	12	3	2	24	10
State Systems	11	1	2	2	-	3	3
Federal Systems	30	3	3	-	-	22	2
Total	159	40	25	8	2	55	29
Sanitary Surveys**	23	5	6	1	0	7	4

*A Public Water System is defined as a system that has at least fifteen service connections or regularly serves an average of at least twenty-five individuals daily at least sixty days out of the year.

**A Sanitary Survey is an on-site inspection of a public water system by Department personnel using standard procedures to determine the effectiveness of the operation and maintenance of the system in providing safe water to the consuming public.

SUMMARY

The objective of the Vector Control Branch is to prevent outbreaks of vector-borne diseases and serious vector nuisances by program activities designed to control vector populations and guard against the encroachment of new vector species. The Tables for 1982 have been revised from past years to better reflect necessary program changes and new priorities.

Table 1 presents the major program activities which showed an increase in 1982 over 1981 in premises inspections, area vector abatement and vector surveillance.

Table 2 presents the small mammal retrieval data by island and activity. This total activity increased substantially during 1982. The increase reflected: (1) a mice outbreak at Makakilo, Oahu, and (2) need for increased rodent-borne disease surveillance for Hawaii and Maui.

Table 3 presents a summary of laboratory tests and examinations conducted to monitor the Statewide status of plague and murine typhus and the prevalence of leptospirosis on Oahu. This activity showed a small increase in 1982.

Table 4 presents a summary of the applied vector research projects conducted in 1982. These projects are conducted to provide the program with a better basis for preventing diseases and to improve vector control methods.

TABLE 1

PRINCIPAL ACTIVITIES OF THE VECTOR CONTROL BRANCH ON THE ISLANDS OF OAHU, HAWAII, MAUI AND KAUAI

STATE OF HAWAII, 1982

Activity	Total	Island			
		Oahu	Hawaii	Maui	Kauai
Vector Surveillance					
Mosquitoes (Lt-Trap Days)	36,292	18,170	10,332	2,319	5,471
Rodents (Trap-Days)	261,253	54,326	174,581	32,328	18
Flies (Trap-Days)	1,168	728	-	440	-
Yellowjackets (Trap-Days)	5,267	-	3,980	825	462
Others (Trap-Days)	118	118	-	-	-
Domestic Vector Abatement					
No. Premises Inspected for Survey	16,605	-	15,146	1,459	-
No. Additional Premises Inspected During Complaints*	3,831	3,312	210	108	201
Enforcement					
Demolition Permits Investigated*	462	331	23	108	-
Referrals Investigated*	87	11	26	1	49
Complaints Investigated	3,534	1,958	1,079	391	106
Mosquitoes	734	562	95	56	21
Rodents	1,787	847	630	252	58
Flies	250	181	41	17	11
Fleas	160	109	39	11	1
Mites/Ticks*	52	38	9	5	-
Cockroaches*	67	45	16	6	-
Wasps/Bees*	200	23	155	16	6
Others	284	153	94	28	9
Area Vector Abatement					
Storm Drains, Pits Trtd. (No.)	25,723	10,363	40	15,320	-
Mosq. Brdg. Areas Insp. (Ac.)	27,291	8,213	3,703	7,082	8,293
Mosq. Brdg. Areas Trtd. (Ac.)	4,396	586	422	1,847	1,541
Mosq. Adulticiding (Ac.)*	130	-	-	7	123
Mosq. Brdg. Containers Trtd. (No.)*	41,823	9,123	32,686	14	-
Mosq. Bio-Control (No. Fish Stocked)	1,243,795	1,005,745	1,075	193,975	43,000
Rodent Area Treated (Ac.)	8,866	129	1,356	7,358	23
Fly Control (Ac.)*	61	-	16	3	42
Yellowjacket Nests Destroyed (No.)*	150	-	133	15	2
Cordon Sanitation					
Airport Inspection (Freq.)*	925	638	156	67	64
Harbor/Pier Inspection (Freq.)*	6,534	6,240	156	126	12
Rodent Bait Stations (No.)*	2,178	1,714	-	352	112
Mosq. Brdg. Containers Trtd. (No.)*	5,800	5,800	-	-	-
Education and Consultation					
People Reached (No.)	8,210	6,300	892	361	657
Vector Identification (No.)*	271	225	25	20	1
Source Reduction (No.)*	1,356	504	14	553	285
Laboratory Zoonotic Diagnosis					
Macroscopic Examinations*	4,299	262	2,903	1,134	-
Serological & Cultural Examinations*	4,294	4,294	-	-	-
Applied Vector Research					
On-Going Projects*	16	7	3	3	3

* New activities reported for first time

TABLE 2

TOTAL SMALL MAMMAL RETRIEVALS BY ISLAND, ACTIVITY, AND SPECIES

STATE OF HAWAII, 1982

Island	Activity	Trap-Days*	Total Small Mammals Retrieved	Species								
				Rattus					Mus musculus		Herpestes auropunctatus	
				Total								
				Number	Percent	exulans	norvegicus	rattus	Number	Percent	Number	Percent
Hawaii	Field	80,407	7,176	2,902	40.44	677	595	1,630	2,998	41.78	1,276	17.78
	Cordon	94,174	4,873	795	16.32	253	48	494	2,594	53.23	1,484	30.45
	Total	174,581	12,049	3,697	30.68	930	643	2,124	5,592	46.41	2,760	22.91
Oahu	Field	16,174	2,230	426	19.10	10	13	403	1,800	80.72	4	0.18
	Cordon	38,152	17	17	100.00	-	2	15	-	-	-	-
	Total	54,326	2,247	443	19.72	10	15	418	1,800	80.11	4	0.17
Maui	Field	9,078	1,530	1,009	65.95	469	-	540	508	33.20	13	0.85
	Cordon	23,250	22	19	86.36	1	-	18	3	13.64	-	-
	Total	32,328	1,552	1,028	66.24	470	-	558	511	32.93	13	0.83
Kauai	Field	18	8	8	100.00	-	8	-	-	-	-	-
	Cordon	-	-	-	-	-	-	-	-	-	-	-
	Total	18	8	8	100.00	-	8	-	-	-	-	-
Total	Field	105,677	10,944	4,345	39.70	1,156	616	2,573	5,306	48.48	1,293	11.82
	Cordon	155,576	4,912	831	16.92	254	50	527	2,597	52.87	1,484	30.21
	Total	261,253	15,856	5,176	32.64	1,410	666	3,100	7,903	49.84	2,777	17.52

* Trap-Days = No. Traps Set X No. of Days Trapped

TABLE 3

SUMMARY OF ZOONOSIS LABORATORY ACTIVITIES AND FINDINGS BY AREA

STATE OF HAWAII, 1982

Activity	Total	Island				
		Oahu	Hawaii		Maui	Kauai
			East	West		
Macroscopic Examinations						
No. Small Mammals Examined	4,299	262	339	2,564	1,134	...
Ectoparasite Examinations						
No. Fleas Recovered	179	115	3	-	61	...
No. Mites/Lice Recovered	242	242	-	-	-	...
Serological and Cultural Examinations						
Serum Processed and Shipped to Oahu	3,158	-	512	1,513	1,133	...
Plague (mHA)						
No. Sera Tested	419	-	229	180	10	...
No. Positive	-	-	-	-	-	...
Percent Positive	-	-	-	-	-	...
Murine Typhus (micro cf)						
No. Sera Tested	3,193	288	489	1,454	962	...
No. Positive	847	18	88	258	483	...
Percent Positive	26.53	6.25	18.00	17.74	50.21	...
Leptospirosis						
No. Cultures Prepared	263	263	...	...	...	...
No. Cultures Positive	66	66	...	...	...	...
Percent Positive	25.10	25.10	...	...	...	...
No. Cultures Typed	67	67	...	...	...	...
No. Slide Agglutination	159	159	...	...	...	...
No. Positive	3	3	...	...	...	...
Percent Positive	1.89	1.89	...	...	...	...
No. Micro Agglutination	260	260	...	...	...	...
No. Positive	9	9	...	...	...	...
Percent Positive	3.46	3.46	...	...	...	...

TABLE 4

APPLIED VECTOR RESEARCH PROJECTS CONDUCTED

BY THE VECTOR CONTROL BRANCH IN 1982

STATE OF HAWAII, 1982

Pest Common Name (Scientific Name)	Project Title	Status/Purpose
Southern House Mosquito (*Culex quinquefasciatus*)	Evaluation of the mosquito larvicide, *Bacillus thuringiensis* var. *Israelensis*, Serotype H-14.	Project completed. Tests showed that the bacteria effectively controlled mosquito larvae in clean water but was less effective in polluted waters.
Southern House Mosquito (*Culex quinquefasciatus*)	Evaluation of methyl-pentynol in reducing fish mortality during transportation.	Project completed. Tests showed that methyl-pentynol was ineffective in reducing transport mortality.
Rodents/Leptospirae (*Rattus* spp.)	Pathogenic leptospirae survival in prawn farm pond waters.	Project completed. Tests showed that unsterilized and unfiltered pond water possibly interfered with the growth and isolation of leptospirae.
Rodents/Rat Lung Worm (*Rattus* spp./*Angiostrongylus cantonensis*)	Survey of *Angiostrongylus cantonensis* in rodents, intermediate hosts, and paratenic hosts on Oahu.	Project on-going. To determine the prevalence of *A. cantonensis* among rodents, intermediate and paratenic hosts, and to delineate potential sources and areas for human infections.
Western Yellowjacket (*Vespula pensylvanica*)	Yellowjacket population and distribution studies.	Project on-going. To determine seasonal history and biology of yellowjackets under local conditions.
Western Yellowjacket (*Vespula pensylvanica*)	Yellowjacket control by self-dusting stations.	Project on-going. To determine effectiveness of self-dusting stations in reducing or controlling yellowjacket populations.
Western Yellowjacket (*Vespula pensylvanica*)	Yellowjacket control by poison bait stations.	Project on-going with HSPA. To determine effectiveness of poison baits in controlling yellowjacket populations especially in sugar canelands.
Refuse Breeding Flies (*Musca domestica*, etc.)	Factors influencing fly populations at sanitary landfills in Hawaii.	Project on-going. To determine relationships between seasonal changes, landfill operation and fly breeding.
Non-biting Midges (*Chironomus hawaiiensis*)	Biological control of midges.	Project on-going. To determine the effectiveness of fishes (Guppies and Tilapia) in controlling midges.
American cockroach (*Periplaneta americana*)	Migratory behaviour of the American cockroaches.	Project on-going. To determine sources of American cockroaches in residential areas.

SUMMARY

The Litter Control Office was established within the Department of Health pursuant to Act 2, First Special Session of the 1977 Legislature. The purpose of the office is to promote, coordinate and implement litter control in the State through public education and awareness, streamlined enforcement, continuing voluntary anti-litter campaigns, and requirements for litter receptacles.

"Litter" means all rubbish, refuse, waste material, garbage, trash, offal, or any debris of whatever kind or description, whether or not it is of value, and includes improperly discarded paper, metal, plastic, glass, or solid waste.

The results produced in LITTER CAMPAIGN '82 are listed in Table 1. Prior to the annual statewide litter cleanup project, "Weepul Groups" canvassed their neighborhoods to ask neighbors to promise not to litter and back their promise up with a minimum of 25 cents. These groups, in turn, promised to pick up one bag of litter for the "I won't litter" pledge. Weepuls are small furry creatures with eyes, feet and antennae which symbolize "we the people".

Table 2 shows the number of participating schools and individuals and the amount of aluminum cans and newspapers collected in the 1982 Statewide Recycling Campaign. The campaign was conducted during the month of April on the islands of Oahu, Maui, Kauai, Hawaii, and Molokai.

Table 3 shows the number of litter bags that were made available to community organizations, youth groups, and the general public. Litter bags are available to the public upon request for litter control projects and promotional purposes.

Table 4 lists the various types of educational and promotional litter control materials distributed to organizations, agencies, firms and individuals. The total amounts distributed are shown by type of material.

TABLE 1

LITTER CAMPAIGN '82
STATE OF HAWAII, APRIL 1982

No. of Weepul Groups	82
No. of "I won't litter" Pledges Collected	17,072
Total Dollars Collected by Weepul Groups	$15,531
No. Bags of Litter Promised to be Picked up by Weepul Groups	8,542
No. Bags of Litter Picked Up	15,500
No. of Participating Cleanup Groups	495

TABLE 2

STATE RECYCLING CAMPAIGN
STATE OF HAWAII, FEBRUARY 1982

No. of Participating Schools	Approximate No. of Participating Individuals	No. of Pounds of Aluminum Cans Collected	No. of Pounds of Newspaper Collected	Total Dollars Earned
135	160,000	221,000	390,000	$47,972

TABLE 3

LITTER BAGS PROVIDED FOR PUBLIC USE
STATE OF HAWAII, 1982

Type of Bag	Approximate No. Provided
State Logo Car Litter Bags	63,000
State Logo Litter Bags (30-gallon capacity)	27,500
Plain Litter Bags (30-gallon capacity)	4,000
Litter Bags Sponsored by Businesses (30-gallon capacity)	7,000

TABLE 4

EDUCATIONAL AND PROMOTIONAL LITTER CONTROL MATERIALS DISTRIBUTED
STATE OF HAWAII, 1982

Type of Material	Total Amounts Distributed
Anti-litter Logo Decals	63,000
Posters	5,500
Bumper Stickers	9,750
Anti-litter Logo Magnets	4,200
Book Covers	9,100
Other Materials a/	73,000

a/ Special flyers and promotional materials.

MEDICAL HEALTH SERVICES DIVISION

DIABETES SCREENING SURVEY

Chronic Disease Branch

Statistical Report - 1982

Table I shows the total number of persons screened and the new diabetics found by age and sex. The rate of new diabetics is essentially the same as last year's figure, even though almost 1,000 more people were screened. As is to be expected, the highest rates were in the 45 year and older age ranges.

Table II shows the rates of new diabetics by race and sex. As in previous years, the Caucasians showed the lowest rate and Filipinos the highest. Koreans had too few screened to give a statistically significant result.

Table III shows the diabetes surveys by island. Oahu showed a slightly higher rate than the State average. The absence of any positives found on Kauai may be attributed to the fact that screening on this island was in conjunction with the Health Fair, where all screenees had been asked to fast before being tested. Thus, these tests were predominantly fasting rather than post-prandial (after eating), and the number of positives would be fewer.

Table IV, reporting the number of abnormal Pap smears found, shows a marked drop from previous years -- down to only two. This can be explained by a change in reporting policy. In previous years, "abnormal" included Class II Pap smears. Because these were almost never found to result in findings of cancer, on advice from the pathologists, we are now referring only Class III and over.

TABLE I

DEPARTMENT OF HEALTH
CHRONIC DISEASE BRANCH

DIABETES SCREENING SURVEY BY AGE AND SEX FOR JULY, 1981 - JUNE, 1982

	TOTAL SCREENED			POSITIVE SCREENEES						NEW DIABETICS					
				NUMBER			PERCENT			NUMBER			RATE *		
	TOTAL	MALE	FEMALE	TOTAL	M	F	TOTAL	M	F	TOTAL	M	F	TOTAL	M	F
ALL AGES	8,398	3,485	4,913	136	63	73	1.61	1.80	1.48	40	16	24	4.76	4.59	4.88
UNDER 25	721	269	452	2	1	1	0.27	0.37	0.22	0	0	0	0.00	0.00	0.00
25-44	2,056	815	1,241	14	5	9	0.68	0.61	0.72	4	1	3	1.94	1.22	2.41
45-54	1,179	401	778	21	3	18	1.78	0.74	2.31	9	2	7	7.63	4.98	8.99
55-64	1,879	802	1,077	39	18	21	2.07	2.24	1.94	11	5	6	5.85	6.23	5.57
65-OVER	2,563	1,198	1,365	60	36	24	2.34	3.00	1.75	16	8	8	6.24	6.67	5.86

*Number of new diabetics per thousand screenees.

TABLE II

DEPARTMENT OF HEALTH
CHRONIC DISEASE BRANCH

DIABETES SCREENING SURVEY BY RACE AND SEX FOR JULY, 1981 - JUNE, 1982

	TOTAL SCREENED			POSITIVE SCREENEES						NEW DIABETICS					
				NUMBER			PERCENT			NUMBER			RATE*		
	TOTAL	MALE	FEMALE	TOTAL	M	F	TOTAL	M	F	TOTAL	M	F	TOTAL	M	F
ALL RACES	8,398	3,485	4,913	136	63	73	1.61	1.80	1.48	40	16	24	4.76	4.59	4.88
JAPANESE	3,427	1,349	2,078	57	26	31	1.66	1.92	1.49	18	7	11	5.25	5.18	5.29
CAUCASIAN	2,184	910	1,274	18	12	6	0.82	1.31	0.47	6	3	3	2.74	3.29	2.35
HAWAIIAN, PART-HA	655	237	418	14	7	7	2.13	2.95	1.67	2	1	1	3.05	4.21	2.39
CHINESE	659	312	347	11	4	7	1.66	1.28	2.01	4	2	2	6.06	6.41	5.76
FILIPINO	810	404	406	25	12	13	3.08	2.97	3.20	6	3	3	7.40	7.42	7.38
KOREAN	74	26	48	1	0	1	1.35	0.00	2.08	2	0	2	27.02	0.00	41.66
PUERTO RICAN	57	21	36	3	1	2	5.26	4.76	5.55	0	0	0	0.00	0.00	0.00
OTHER & UNSPEC.	532	226	306	7	1	6	1.31	0.44	1.96	2	0	2	3.75	0.00	6.53

*Number of new diabetics per thousand screenees.

TABLE III

DEPARTMENT OF HEALTH
CHRONIC DISEASE BRANCH

DIABETES SCREENING SURVEY BY ISLAND FOR JULY 1, 1981 - JUNE 30, 1982

LOCATION	TOTAL SCREENED	NO. POSITIVE DEXTROSTIX	NO. POSITIVE AUTOANALYZER	NEW DIABETICS	RATE PER 1000 SCREENED
OAHU	5,111	220	74	28	5.47
HAWAII	1,684	70	43	8	4.75
MAUI	915	31	10	3	3.27
KAUAI	287	0	0	0	0.00
MOLOKAI	285	10	5	1	3.50
OTHERS (Lanai)	116	8	4	0	0.00
TOTAL	8,398	339	136	40	4.76

TABLE IV
CHRONIC DISEASE BRANCH

UTERINE CERVICAL CANCER SCREENING
Calendar Year 1981-82

Year	Number Screened	Number Abnormal Findings Referred
1972	4,559	10
1973	5,388	12
1974	3,914	33
1975	2,863	19
1976	3,585	37
1977	3,329	90
1978	2,339	52
1979	2,818	23
1980	2,574	36
1981	2,760	33
1982	2,295	2

TABLE V
BLOOD PRESSURE SCREENING

Fiscal year 1981-82

Total Screened	9,974	
Abnormals:		
New Hypertensives Referred		1,837
Known Hypertensives Referred		1,022
Normal Known Hypertensives Screened	593	

The Hospital and Medical Facility Licensing and Medicare Certification Branch of the Medical Health Services Division focuses on quality of care delivered in health facilities and on the number of facilities required to provide a satisfactory level of health care. Regulations for the various types of facilities are prepared and adopted following public hearings, and revisions of regulations are an ongoing policy. Regulations are enforced by inspections, surveys and consultations performed by specially trained surveyors composed of multi-disciplinary specialists. Licensing of facilities and certification for participation in the Federal Medicaid and Medicare Programs are a major function of the Branch. Facilities which are included in the licensing and certification process include in the order of intensity of care necessary: Acute Hospitals, Skilled Nursing Facilities, Intermediate Care Facilities, and "mixed" or "swing" bed facilities where intermediate care and skilled nursing beds are located in one facility and used as necessary depending on the condition of the patient. Acute Hospitals may have distinct parts allocated to skilled nursing and intermediate care beds. An equally important function of this Branch is licensing facilities for Mentally Retarded, Care Homes, Special Treatment Facilities, primarily for alcohol and drug abuse rehabilitation, Independent Laboratories, Home Health Agencies, End Stage Renal Disease Units, Independent Physical Therapy Providers, Freestanding Birthing Facilities, and Freestanding Surgical Outpatient Facilities. Tables showing the number of facilities and beds under each category for the State are given in this section.

Table 1

NUMBER AND TYPE OF FACILITY BY ISLAND

STATE OF HAWAII, 1982

Type of Facility	State Total	Oahu	Hawaii	Kauai	Lanai	Maui	Molokai
Hospitals	27	14	5	3	1	3	1
Skilled Nursing Facilities	26	15	5	3	1	2	
Intermediate Care Facilities	23	13	4	2	1	2	1
Residential Care Homes	15	10	1	3			1
Family Care Homes	280	234	19	12		14	1
Special Treatment Facilities	20	14	1	2		3	
Independent Laboratories	33	24	5			4	
Home Health Agencies	9	3	2	1	1	1	1
End State Renal Disease	7	4	1	1		1	
Rehabilitation Facilities	3		2			1	
Physical Therapists	14	12	1			1	
Grand Total	457	343	46	27	4	32	5

Table 2

BED COUNT IN FACILITIES BY ISLAND

STATE OF HAWAII, 1982

Type of Facility	State Total	Oahu	Hawaii	Kauai	Maui	Molokai	Lanai
Hospitals:							
Acute	2776	2190	265	147	153	15	6
Skilled Nursing Facilities	322	246	70	6			
Intermediate Care Facilities	260	156	84		8	12	
Swing (ICF/SNF)	352	135	8	108	93		8
Freestanding:							
Skilled Nursing Facilities	632	512			120		
Intermediate Care Facilities	1036	670	242		124		
Swing (ICF/SNF)	740	532		115	93		
Residential Care Homes	516	424	13	65		14	
Family Care Homes	1098	929	68	47	51	3	
Special Treatment Facilities	514	407	14	18	75		
Grand Total Bed Count	8246	6201	764	506	717	44	14

Table 3

LICENSED BEDS BY YEAR AND TYPE OF FACILITY

STATE OF HAWAII, 1982

Year	Acute General/ Hospitals	Skilled Nursing Facilities (SNF)	Intermediate Nursing Facilities (ICF)	Swing SNF/ICF	Intermediate Care Facility/ Mental Retardation (ICF/MR)	Care Homes	Special Treatment Facilities	End Stage Renal Disease
1978	2788	1480	735	149	608	1460	246	73
1979	2748	1383	844	257	608	1444	531	73
1980	2775	1042	952	607	583	1573	617	93
1981	2359	822	903	901	334	1555	514	93
1982	2776	854	1296	1109	362	1614	514	93

LABORATORY SERVICES

The Laboratories Branch provides services to other departmental programs, private physicians, institutions and other governmental programs to enhance their effectiveness for public health and safety, to control the quality of the environment and to enforce the various state laws and regulations.

The services provided include air chemistry; clinical microbiology (bacteriology, mycobacteriology, mycology, parasitology, and serology); food and drug analysis; milk and milk products analyses; pesticide analysis; sanitary microbiology and chemistry; toxicology; and virology. Also, the branch provides training opportunities to other laboratory personnel in the state.

During fiscal year 1982, the branch performed a total of 533,692 examinations for the 260,737 that were received. Some of the significant activities during this period were the detection of heptachlor epoxide in Oahu's milk supply; the continuation of the investigations for salmonella organisms in hog viscera and pork products and herpes simplex virus in pregnant women; and the completion of air monitoring stations in the Waikiki and Pearl City area.

Also, during the period, the branch was recertified by FDA to perform microbiological and chemical analyses on shellfish and milk; recertified by EPA to perform microbiological and chemical analyses on potable and non-potable waters; recertified by EPA to perform air pollution monitoring analysis; continued to serve as the Salmonella typhi Phage Typing Center and as the Influenza Virus Surveillance and Reference Laboratory for the Pacific Basin for the Center for Disease Control and the World Health Organization, respectively; and serve as a reference laboratory in medical bacteriology for the Center for Disease Control.

TABLE 1

NUMBER OF SAMPLES SUBMITTED TO VARIOUS UNITS OF THE LABORATORIES BRANCH AND NUMBER OF BACTERIOLOGICAL, PARASITOLOGICAL, SEROLOGICAL AND CHEMICAL EXAMINATIONS PERFORMED UPON THEM BY TYPE OF SPECIMEN AND ISLAND

STATE OF HAWAII, FY 1982

Diseases or Type of Samples	All Laboratories		Oahu		Hawaii		Maui		Kauai	
	Specimen/ Sample	Examinations	Specimen/ Sample	Examinations	Specimen/ Sample	Examinations	Specimen/ Sample	Examinations	Specimen/ Sample	Examinations
Total	260,737	533,692	225,369	474,550	11,878	23,016	15,604	26,041	7,886	10,085
Microbiology										
Enteric	6,876	16,862	3,828	10,482	689	1,387	2,310	4,817	49	176
Gonorrhea	109,674	107,175	101,794	100,658	1,981	1,747	3,639	2,902	2,260	1,868
Staphylococcus Phage Typing	890	2,500	890	2,500	-	-	-	-	-	-
Streptococcus	13,009	18,117	8,443	13,487	1,596	1,270	22	92	2,970	3,360
Tuberculosis	8,575	50,779	7,274	46,352	1,301	4,427	-	-	-	-
Miscellaneous Bacteriology	6,705	26,577	6,487	25,505	148	748	-	-	48	232
Mycology	911	5,698	479	4,493	404	1,121	28	84	-	-
Parasitology	6,749	23,020	2,864	10,057	825	2,505	2,917	9,916	143	542
Viral Isolation	2,813	12,112	2,813	12,112	-	-	-	-	-	-
Serology: Syphilis	30,545	31,806	23,463	25,816	1,149	1,020	4,895	4,040	1,038	930
Non-Syphilis	1,221	2,582	1,031	2,079	178	463	12	40	-	-
Viral & Rickettsial ...	12,687	23,374	12,687	23,374	-	-	-	-	-	-
Sanitary Microbiology										
Drinking Water	5,610	12,258	955	2,521	2,293	4,816	1,519	3,212	843	1,709
Pollution Water	850	5,386	508	3,625	218	1,157	86	383	38	221
Food Products	2,906	8,733	2,198	6,570	366	1,163	100	332	242	668
Food Poisoning	85	805	85	805	-	-	-	-	-	-
Salmonella Study	1,167	4,702	1,167	4,702	-	-	-	-	-	-
Sanitary Chemistry										
Drinking Water	1,063	10,572	848	10,398	180	111	-	-	35	63
Pollution Water	829	11,347	829	11,347	-	-	-	-	-	-
Food Products	2,033	10,457	1,438	9,014	299	904	76	223	220	316
Pesticide	1,292	69,668	1,292	69,668	-	-	-	-	-	-
Toxicology	2,300	15,011	2,300	15,011	-	-	-	-	-	-
Clinical Chemistry (INH) ..	6,227	8,647	5,976	8,470	251	177	-	-	-	-
Air Pollution Chemistry....	35,720	55,504	35,720	55,504	-	-	-	-	-	-

TABLE 2

INCIDENCE OF HUMAN SALMONELLA BY TYPE AND AGE
CENTRAL LABORATORY ON OAHU

STATE OF HAWAII - JULY 1981 TO JUNE 1982

Group	Serotype	All Ages Total	Less than Six Months	Six Months to One Year	One Year to Three Years	Three Years to Ten Years	Ten Years to Twenty Years	Twenty Years and Over	Unknown
		570	106	74	62	46	21	165	96
A	paratyphi A	3	0	0	0	0	0	3	0
B	agona	43	7	9	6	3	1	12	5
	bredeney	1	0	0	0	0	0	0	1
	chester	3	0	0	0	1	0	1	1
	derby	12	2	1	1	2	0	3	3
	heidelberg	29	3	9	7	2	2	4	2
	java	1	0	0	1	0	0	0	0
	reading	2	0	1	0	1	0	0	0
	saint paul	6	2	1	0	1	0	1	1
	san diego	1	0	1	0	0	0	0	0
	schwarzengrund	8	2	1	0	1	0	4	0
	shubar	1	0	1	0	0	0	0	0
	typhimurium	73	13	5	8	17	2	15	13
	typhimurium var copenhagen	8	3	0	0	0	0	3	2
C_1	bareilly	1	0	0	0	0	1	0	0
	infantis	22	2	5	3	1	2	5	4
	lille	1	0	0	0	0	0	1	0
	mbandaka	1	0	0	0	0	0	1	0
	montevideo	11	1	1	1	2	0	6	0
	nienstedten	2	0	0	0	1	0	0	1
	ohio	5	2	0	0	1	0	1	1
	oranienburg	3	0	0	1	0	0	0	2
	oslo	13	4	4	2	0	0	3	0
	potsdam	1	0	0	0	0	0	0	1
	singapore	6	0	0	0	0	0	5	1
	thompson	13	0	0	0	1	0	10	2
	virchow	1	0	1	0	0	0	0	0
	salmonella 6,7:12:-	1	0	0	0	0	1	0	0
C_2	chailey	2	0	1	0	0	0	1	0
	hadar	3	0	0	0	0	0	3	0
	kentucky	4	0	0	0	1	0	2	1
	manhattan	2	0	0	1	0	0	1	0
	muenchen	7	1	0	1	0	1	3	1
	newport	24	2	5	5	2	1	6	3
	tallahassee	1	0	0	0	0	0	1	0
	salmonella 6,8:nonmotile	1	0	0	0	0	0	0	1

TABLE 2 (continued)

INCIDENCE OF HUMAN SALMONELLA BY TYPE AND AGE
CENTRAL LABORATORY ON OAHU

STATE OF HAWAII - JULY 1981 TO JUNE 1982

Group	Serotype	All Ages Total	Less than Six Months	Six Months to One Year	One Year to Three Years	Three Years to Ten Years	Ten Years to Twenty Years	Twenty Years and Over	Unknown
D_1	enteritidis	34	2	0	3	4	1	18	6
	panama	15	2	4	0	2	1	5	1
	typhi phage type:A	3	0	0	0	0	0	3	0
	typhi phage type:B_1	3	0	0	0	0	0	3	0
	typhi phage type:E_1	8	0	0	0	1	4	3	0
	typhi phage type:E_2	1	0	0	0	0	0	1	0
	typhi phage type:E_9	1	0	0	0	0	0	0	1
	typhi phage type:M_2	8	0	0	0	0	2	0	6
	typhi W-form	1	0	0	0	0	0	0	1
E_1	anatum	4	2	1	0	0	0	1	0
	give	13	6	1	0	0	0	5	1
	london	3	0	0	1	0	0	1	1
	meleagridis	7	0	0	0	0	0	0	7
	muenster	7	3	2	0	0	0	0	2
	weltevreden	103	42	15	15	1	0	19	11
E_2	binza	1	0	0	0	0	0	0	1
	drypool	1	0	0	0	0	0	1	0
	new brunswick	1	1	0	0	0	0	0	0
	newington	4	1	0	1	0	0	0	2
E_3	arkansas	3	0	0	0	0	0	3	0
	salmonella 3,15,34:nonmotile	1	0	0	0	0	0	0	1
E_4	senftenberg	4	1	0	1	0	0	2	0
F	aberdeen	10	1	2	1	0	0	1	5
G	cubana	1	0	0	0	0	0	1	0
	worthington	6	1	0	0	0	1	1	3
I	gaminara	2	0	2	0	0	0	0	0
K	cerro	5	0	1	1	0	1	1	1
O	alachua	3	0	0	1	1	0	1	0
Q	wandsworth	1	0	0	1	0	0	0	0

TABLE 3

INCIDENCE OF SALMONELLA BY TYPE FROM NON HUMAN SOURCES
CENTRAL LABORATORY ON OAHU

STATE OF HAWAII - JULY 1981 TO JUNE 1982

Group	Serotype	SOURCE												
		TOTAL	Avian	Bovine	Canine	Crocodile	Feline	Emu	Gecko	Porcine	Rat	Seal	Turtle	Equipment
B	agona	12								8				4
	derby	9								9				
	saint paul	1								1				
	typhimurium	15	7					8						
	typhimurium var copenhagen	6	4	2										
C_1	montevideo	3		1						2				
	ohio	1								1				
	typhisuis	2								2				
C_2	newport	3					1		2					
	manhattan	2								2				
D	enteritidis	36	22			4				6			4	
E_1	anatum	12		8						4				
	give	6							4			2		
	london	2								2				
	weltevreden	40	4		1				25	8	2			
E_2	lanka	4								2	–		2	
	newington	5		5										
F	aberdeen	1			1									
G_2	havana	3		2						1				
K	cerro	8		8										
M	bokenjac	2								2				
U	houton	1							1					
	TOTAL	174	37	26	2	4	1	8	32	50	2	2	6	4

TABLE 4

INCIDENCE OF PARASITES FROM HUMANS
CENTRAL LABORATORY ON OAHU

STATE OF HAWAII - JULY 1981 to JUNE 1982

Total Number of Specimens Examined 1,907	Total Number of Specimens Positive 621	Total Number of Parasites Found 1,003

INTESTINAL PARASITES FOUND

ORGANISM	Number Found	ORGANISM	Number Found
PROTOZOA		HELMINTHS	
Sarcodina (Amebae)		Nematoda (Round Worms)	
Entamoeba histolytica	33	Enterobius vermicularis	2
Entamoeba hartmanni	24	Trichuris trichiura	297
Dientamoeba fragilis	1	Ascaris lumbricoides	143
Entamoeba coli	74	Hookworm	138
Endolimax nana	55	Strongyloides stercoralis	38
Iodamoeba butschlii	10	Trichostrongylus sp.	1
Mastigophora (Flagellates)		Cestoda (Tapeworms)	
Giardia lamblia	77	Taenia sp.	10
Chilomastix mesnili	3	Taenia saginata	1
Nonpathogenic flagellates	4	Hymenolepis nana	5
		Diphyllobothrium latum	1
		Trematoda (Flukes)	
		Fasciola sp.	1
		Clonorchis sinensis	84

TABLE 5

INCIDENCE OF GRAM NEGATIVE DIPLOCOCCUS
FROM GONORRHEA CULTURES SUBMITTED

CENTRAL LABORATORY ON OAHU
STATE OF HAWAII
July 1981-June 1982

	Number of Specimens			
	Positive	Negative	Unsatisfactory	TOTAL
Culture	3,730	95,501	2,563	101,794

TABLE 6

INCIDENCE OF MYCOBACTERIA FROM HUMAN SOURCES
CENTRAL LABORATORY ON OAHU
STATE OF HAWAII

July 1981-June 1982

Mycobacterium	TOTAL	Specimen Source			
		Sputum	Bronchial	Urine	Miscellaneous
tuberculosis.....	214	200	2	5	2-Lymph Node 1-Lung 1-Spleen 1-Neck Aspirate 1-Pleura 1-Chin Wound
Group I (Photochromogen)					
kansasii.....	4	4	-	-	-
marinum.....	3	-	-	-	1-Foot 1-Leg 1-Wrist
Group II (Scotochromogen)					
flavescens.....	21	20	-	-	1-Gastric
gordonae.....	141	140	-	1	-
scrofulaceum.....	37	37	-	-	-
szulgai.....	3	3	-	-	-
Group III (Nonphotochromogen)					
avium-intracellulare complex.....	129	122	4	-	2-Lymph Node 1-Aerosol
gastri.....	10	9	-	-	1-Cervical Node
terrae complex.....	25	25	-	-	-
triviale.....	2	2	-	-	-
avium-intracellulare-scrofulaceum (MAIS)....	5	5	-	-	-
Group IV (Rapid Grower)					
chelonei.....	28	28	-	-	-
fortuitum.....	98	98	-	-	-
fortuitum complex.....	1	1	-	-	-
smegmatis.....	3	3	-	-	-
vaccae.....	4	4	-	-	-
TOTAL	728	701	6	6	15

TABLE 7

VIRAL ISOLATIONS
CENTRAL LABORATORY ON OAHU

STATE OF HAWAII - FISCAL YEAR 1982

TYPE OF SPECIMEN	NUMBER OF SPECIMENS			NUMBER OF EXAMINATIONS
	Received	Positive	Negative	
Throat Swabs	365	34	331	399
Fecal	79	17	62	96
Spinal Fluid	106	13	93	119
Blood	4	0	4	4
Tissue	13	0	13	13
Other	991	190	801	1,181
TOTAL	1,558	254	1,304	1,812

VIRAL AGENTS ISOLATED

	NUMBER ISOLATED	
1) Throat Swabs:		
Adenovirus Type (?)	4	
Coxsackievirus Type B-2	3	
ECHOvirus Type 30	2	
Influenza B/Singapore/222/79-like	25	
2) Rectal/Fecal Specimens:		
Adenovirus Type (?)	1	
Coxsackievirus Type B-2	1	
Coxsackievirus Type B-5	1	
ECHOvirus Type 9	2	
ECHOvirus Type 11	1	
ECHOvirus Type 30	11	
3) Cerebrospinal Fluids:		
Coxsackievirus Type B-4	1	
Coxsackievirus Type B-5	1	
ECHOvirus Type 9	3	
ECHOvirus Type 11	1	
ECHOvirus Type 30	7	
4) Miscellaneous Specimens:		
Adenovirus Type (?)	2	(From a nasal swab, an unidentified swab)
Herpesvirus hominis	188	(136 from genital area, 43 from skin, 9 from unidentified swab)

TABLE 8

VIRAL SEROLOGIES
CENTRAL LABORATORY ON OAHU

STATE OF HAWAII - FISCAL YEAR 1982

TYPE OF EXAMINATION	NUMBER OF SPECIMENS			NUMBER OF EXAMINATIONS
	Received	Positive	Negative	
Complement Fixation	894	5	889	894
Hemagglutination-Inhibition	1,167	11	1,156	1,167
Hepatitis B Surface Antigen (RPHA)	0	0	0	0
Rubella (PHA)	407	*	*	407
Total	2,468	16	2,045	2,468
Rabies (FRA)	3	0	3	3

VIRAL AND RICKETTSIAL POSITIVES [a/]

Complement Fixation Antigens:	NUMBER OF POSITIVES [a/]
Cytomegalovirus (AD-169)	1
Herpesvirus hominis Type 1	3
Varicella - Zoster	1
Hemagglutination-Inhibition Antigens:	
Influenza B/Singapore/222/79-like	2
Rubella	9

* Screening test for Rubella, Positive and Negative Terminology not applicable in this context.

a/ Paired sera showing four-fold or greater rise in antibody titer.

PUBLIC HEALTH NURSING BRANCH

SUMMARY

Primary prevention and health promotion are the foundation of public health nursing practice. To accomplish this goal, public health nurses provide generalized comprehensive, and coordinated nursing services to individuals, families and groups at their place of residence, in private and parochial schools, care homes, day care centers, clinics, work sites, and community facilities. The nursing staff participates actively and collaboratively as members of multidisciplinary health care teams to meet the consumers' health needs. As public health nurses provide nursing care in the community, their foremost concern is the attainment and maintenance of optimal health states of Hawaii's residents.

Table 1 shows the number of cases served and the total visits made statewide. Over the past year, we have seen a 3% decrease in caseload - from 37,685 to 36,514 cases. Case increases have been noted in the Chronic Disease and Other Communicable Disease categories with slight decreases in all other service programs. Visits have shown a 2% increase - from 129,629 to 132,429 visits. Comparable to the caseload data, substantial visit increases have been noted in the Other Communicable Diseases and Chronic Diseases categories with the exception of the Tuberculosis Program. All other service program categories showed a slight decrease in the number of Public Health Nurse visitations. More visits were noted to be made to those with disabilities and/or pathological conditions over those who received Health Guidance services only.

Table 2 shows the type of clinic, the number of clinics, and the total number of clinic attendance statewide. There has been a 7% increase in the number of clinic sessions over the past year from 4,650 to 4,989 sessions. Clinic sessions have been added to areas of need and demand. These clinics include blood pressure monitoring clinics, adult health clinics, high risk clinics for mothers and children, and risk reduction clinics. The clinic attendance showed a slight increase by .1% from 115,934 to 116,128 visits. Attendance at these clinics is arranged so that clients may be given the opportunity to receive in-depth consultation and education services.

Table 3 shows the public health nursing services provided to private and parochial schools and home visits made to all school age children. There was an increase of school visits by 23% from 1,252 visits to 1,540 visits over the past year. Home visits to school age children decreased by 5% from 14,466 to 13,774.

Table 4 shows the visits made to preschool age children. Data shows that 31% of all home visits are primarily for this age group. Clinic data displayed on Table 2, likewise, shows 48% of all clinic sessions to be for well-children services.

Table 5 displays clinic/group activities performed in day care centers and schools. There has been an overall increase of 11% in both sessions and attendance.

Table 6 displays the number of visits made to care homes and home visits to those age 60 years and over. As the aged population increases, nursing intervention services will show a concomitant increase in the future.

TABLE 1

CASES ADMITTED TO PUBLIC HEALTH NURSING SERVICE AND VISITS MADE BY COUNTY

STATE OF HAWAII

FISCAL YEAR 1981-82

TYPE OF HOME AND OFFICE NURSING SERVICE	STATE		Honolulu		Hawaii		Kauai		Maui	
	Cases a/	Visits b/	Cases a/	Visits b/	Cases a/	Visits b/	Cases a/	Visits b/	Cases a/	Visits b/
Maternity	1,058	2,631	691	1,925	169	253	112	196	86	257
Infant & Preschool Child Health	14,293	48,282	8,441	33,904	2,958	6,466	816	1,961	2,078	5,951
School Age Child c/	1,890	5,280	1,295	3,922	220	447	83	139	292	772
Adult Health	3,774	8,182	2,922	6,180	119	310	306	473	427	1,219
Tuberculosis d/	9,371	29,402	4,714	10,123	1,881	8,057	920	2,814	1,856	8,408
Other Communicable Disease d/	472	1,057	175	325	110	319	18	58	169	355
Mentally Retarded	127	902	108	736	3	23	1	3	15	140
Other Developmental Disabilities	900	8,291	611	6,147	112	1,035	23	162	154	947
Other Crippled Children	1,257	11,052	629	6,701	361	2,308	75	599	192	1,444
Chronic Diseases	2,711	12,157	1,770	7,205	189	790	156	664	596	3,498
Emotional Problems	435	1,537	384	1,301	11	52	4	15	36	169
All Others	164	752	112	447	19	32	5	13	28	260
Not Home/Not Found	62	2,904	46	2,377	7	163	-	29	9	335
TOTALS	36,514	132,429	21,898	81,293	6,159	20,255	2,519	7,126	5,938	23,755

a/ Cases: Individuals admitted to nursing service for a particular condition.
b/ Visits: Personal contacts with health content which take place in a home or the nurse's office.
c/ Health Guidance Only. Excludes visits to school children in other diagnostic categories.
d/ Includes diagnosed cases and contacts.

TABLE 2

CLINICS CONDUCTED BY PUBLIC HEALTH NURSING SERVICE BY TYPE OF CLINIC, NUMBER OF SESSIONS AND ATTENDANCE BY COUNTY

STATE OF HAWAII

FISCAL YEAR 1981-82

TYPE OF CLINIC	STATE		Honolulu		Hawaii		Kauai		Maui	
	Session	Attendance	Session	Attendance	Session	Attendance	Session	Attendance	Session	Attendance
Well Child	2,387	24,432	1,037	13,400	837	6,641	167	1,089	346	3,302
Adult Health	473	8,144	348	7,392	21	316	98	306	6	130
Cardiac a/	24	270	1	12	12	167	6	50	5	41
Child Development - LD	-	-	-	-	-	-	-	-	-	-
Neurology a/	16	40	9	c/	5	26	-	-	2	14
Orthopedic a/	17	224	-	-	13	176	1	3	3	45
Otologic - Speech & Hrg.a/	6	101	-	-	-	-	-	-	6	101
Other Crippled Children a/ including Pediatric	9	43	-	-	6	32	1	3	2	8
Tuberculosis b/	1,866	80,237	867	50,098	332	8,171	258	7,189	409	14,779
Venereal Disease	1	11	1	11	-	-	-	-	-	-
Other Comm. Disease	2	12	-	-	2	12	-	-	-	-
Immunization	11	54	11	54	-	-	-	-	-	-
Leprosy	14	192	-	-	5	67	2	27	7	98
Others	163	2,363	51	608	60	1,022	52	738	-	-
TOTALS	4,989	116,128	2,325	71,575	1,293	16,630	585	9,405	786	18,518

a/ See Crippled Children Branch data
b/ This does not include Honolulu Chest Clinic
c/ Data not available

TABLE 3

PUBLIC HEALTH NURSING SERVICE TO SCHOOLS BY COUNTY a/

STATE OF HAWAII

FISCAL YEAR 1981-82

TYPE OF SCHOOL HEALTH PROGRAM	STATE	Honolulu	Hawaii	Kauai	Maui
Visits to Schools b/	1,540	1,335	88	38	79
Home Visits Made to School Age Children	13,774	7,162	2,984	780	2,848
TOTALS	15,314	8,497	3,072	818	2,927

a/ Excludes Public Schools
b/ All diagnostic categories

TABLE 4

PUBLIC HEALTH NURSING SERVICE TO DAY CARE CENTERS BY COUNTY

STATE OF HAWAII

FISCAL YEAR 1981-82

TYPE DAY CARE PROGRAM	STATE	Honolulu	Hawaii	Kauai	Maui
Visits to Day Care Centers*	430	257	59	32	82
Home Visits Made to Preschool Age Children	41,547	31,435	4,440	1,356	4,316
TOTALS	41,977	31,692	4,499	1,388	4,398

*All diagnostic categories

TABLE 5

PUBLIC HEALTH NURSING SERVICE TO SCHOOLS AND DAY CARE CENTERS BY TYPE OF CLINIC BY COUNTY

STATE OF HAWAII

FISCAL YEAR 1981-82

TYPE OF CLINIC	STATE		Honolulu		Hawaii		Kauai		Maui	
	Session	Attendance	Session	Attendance	Session	Attendance	Session	Attendance	Session	Attendance
Vision Rescreening	40	1,418	34	1,277	-	-	-	-	6	141
Tuberculosis Testing	8	112	4	68	-	-	-	-	4	44
Uku-Pediculosis	21	1,223	21	1,223	-	-	-	-	-	-
Others	23	353	23	353	-	-	*	*	-	-
TOTALS	92	3,106	82	2,921	-	-	-	-	10	185

*Data not available

TABLE 6

PUBLIC HEALTH NURSING SERVICE TO CARE HOMES BY COUNTY

STATE OF HAWAII

FISCAL YEAR 1981-82

TYPE OF CARE HOME PROGRAM	STATE	Honolulu	Hawaii	Kauai	Maui
Visits to Care Homes*	605	428	12	18	147
Home Visits Made to Elderly over 60	17,610	10,234	1,402	1,170	4,304
TOTALS	18,215	10,662	1,414	1,188	4,951

*All diagnostic categories

SUMMARY

The goal of the Nutrition Branch is to reduce the risk of disease associated with diet through education, early detection of nutritional problems and intervention. Nutrition is one of the key factors in the promotion of health, in the prevention of disease and in improving the quality of life.

Services of the Nutrition Branch are divided into three major categories:

1) nutrition education for the public,
2) consultations to agencies and individuals and inspections of hospitals and other facilities, and
3) nutrition screening and assessment.

Preventive aspects of nutrition are emphasized by providing sound, up-to-date nutrition information through pamphlets, newsletters, and news articles. Nutrition information is provided to the public through talks to community and student groups, workshops, exhibits at health fairs, T.V. and radio programs, and telephone calls. There was a 75% increase in the number of Sr. citizens reached from the previous year.

Nutrition consultations and direct services are provided to other programs within the department, other governmental agencies, community groups, professionals and the general public. The Public Health Nutritionists provide consultation and licensure services to hospitals, skilled nursing and intermediate care facilities, special treatment facilities, care homes and day care centers to assist them in meeting dietary standards according to State and Federal regulations. In 1982 there was an 18% increase in consultation to agencies and individuals.

Nutrition assessment and diet counseling is provided to those referred for anemia, obesity, underweight, cardiac or other nutritional problems through the Department of Health clinics.

The Special Supplemental Food Program for Women, Infants and Children (WIC Program) funded by the United States Department of Agriculture is administered by the Nutrition Branch. This program provides nutrition screening and assessment, nutrition education, and nutritious food to low income pregnant women, nursing mothers, infants and children up to age 5, who are at nutritional risk.

TABLE 1
NUTRITION BRANCH SERVICES
STATE OF HAWAII: 1982

Type of Nutrition Service	Number of Sessions	Number Reached or Participants
Nutrition Education		
Talks to community groups, students	98	3,789
Senior citizens group talks	13	955
Workshops	58	1,917
Radio and TV	11	
Health Fairs	9	
Nutrition Branch leaflets and booklets		290,115
Newsletters		7,911
Department of Health	30	713

Consultations and Inspections	Number
Care Homes	
Consultations and visits	226
Inspections	301
Hospitals, Skilled Nursing Facilities and Intermediate Care Facilities	
Medicare certifications	27
Special Treatment Facilities	
Consultations and visits	17
Inspections	21
Day Care Centers	
Consultations and vists	40
Inspections	16
Other Agencies and Individuals	
Consultations	2,116
Department of Health	
Consultations	434

Nutrition Assessment & Diet Counseling	Number Reached
Special Supplemental Food Program for Women, Infants and Children (WIC)	8,200

MENTAL HEALTH DIVISION

MENTAL HEALTH DIVISION

The Mental Health Divison provides both inpatient and outpatient services for a series of wide ranging problems affecting disparate populations. The utilization patterns of services provide significant leads to understanding the nature, severity, and determinants of mental illness. Figure 1 displays the trends in various categories of patients: actives, admissions, terminations, and unduplicated counts.

The format of the tables in the following summary for calendar year 1982 is somewhat different from the format for calendar years 1974-1981 due to the substitution of problems on admission for most recent diagnosis. Therefore, the reader may refer to previous reports for further examination of demographic statistical information, but not problems on admission.

Tables 1, 1A, and 1B represent the total active patients by age and problems on admission in treatment as of the end of the year 1982. The number of active patients descreased somewhat from last year.

Table 2 represents a breakdown of division of services (inpatient versus outpatient) by location. These figures represent a population based utilization by catchment area of mental health services both at the community level, represented by outpatient care, and centrally at the Hawaii State Hospital and County/State Hospitals by inpatient care.

Tables 3A and 3B are both further explications of this inpatient/outpatient breakdown by age and problems on admission. The usual relatively large proportion of severely ill patients are treated in an inpatient setting.

Tables 4, 5, and 6 represent admissions to the total State and to the various area services provided by the Mental Health Division for the entire calendar year. This represents an incidence figure of cases over a period of time. The breakdown is by problems on admission, age, ethnicity, source of referral, and catchment area. Combined with past report tables, these tables display trends in the types of problems that are occurring, those people who have these problems, and their frequency of occurrence.

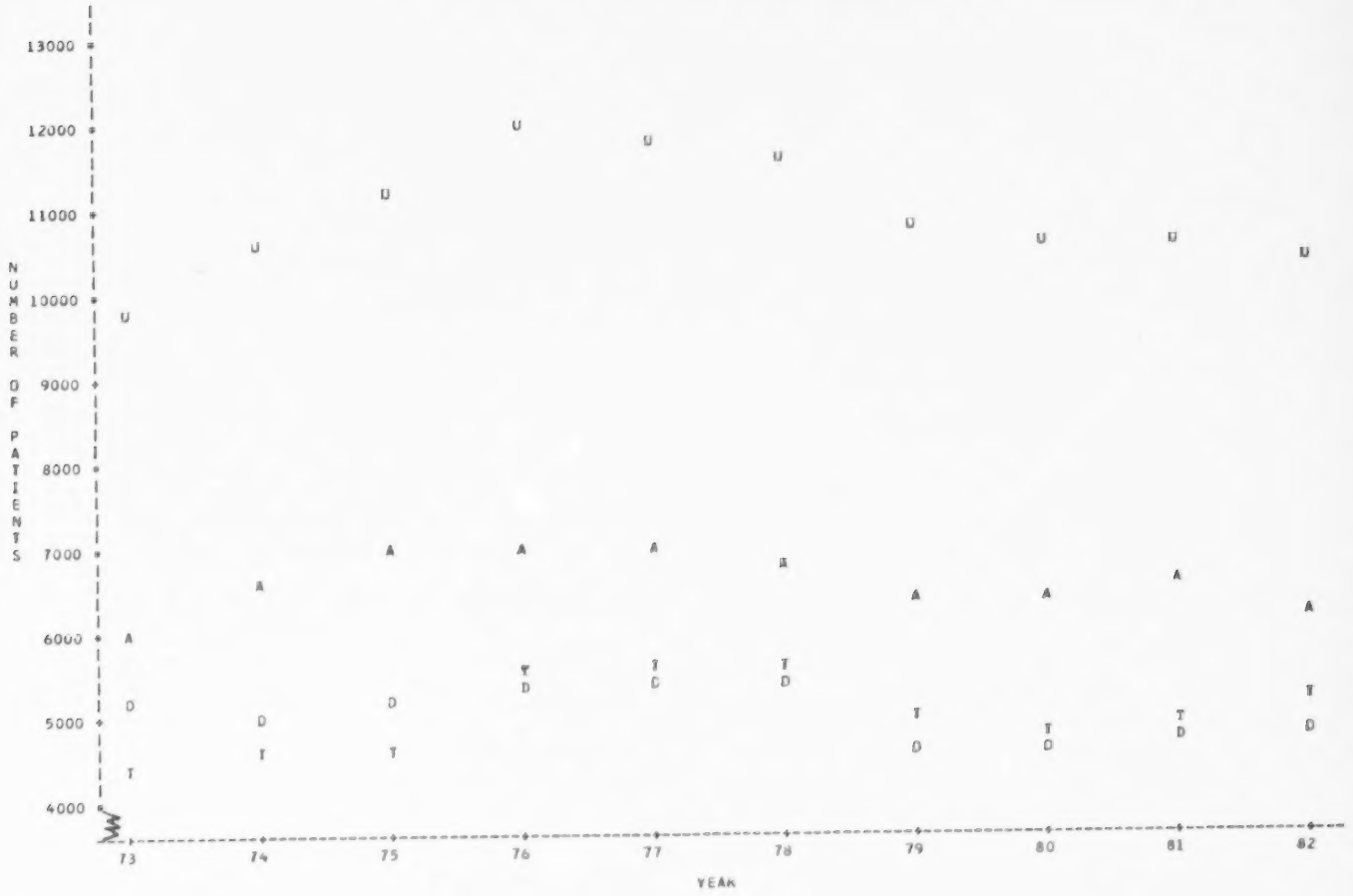
Tables 7, 7A and 7B represent unduplicated total admissions for the year broken down by ethnicity, age on admission, mean age, problems on admission, and sex. Mean age here represents an average age for each category which allows one to look at an aggregate figure rather than a simple frequency distribution.

Tables 8 and 9 represent terminations during the year by geographic and service units as well as by age and problems on admission. Certain categories of problems representing a preponderance of cases, both for admission and termination, are of use in planning.

Table 10 represents an unduplicated count of patients served in all facilities by their problems on admission and age as of the period January through December, 1982.

FIGURE 1. MENTAL HEALTH DIVISION MOVEMENT SUMMARY, 1973-1982

U=UNDUPLICATED COUNT OF PATIENTS SERVED
A=ACTIVES D=ADMISSIONS T=TERMINATIONS



	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Unduplicated Count of Patients Served	9851	10522	11101	11935	11806	11642	10713	10625	10689	10312
Actives	6052	6500	7090	6979	6905	6886	6392	6328	6642	6287
Admissions	5220	5073	5233	5533	5453	5441	4564	4696	4947	4885
Terminations	4368	4618	4633	5684	5529	5522	5057	4759	5062	5155

TABLE 1

PATIENTS ACTIVE 12/31/82, IN STATE MENTAL HEALTH FACILITIES
BY MOST RECENT PROBLEMS AND AGE AS OF 12/31/82

SEX = TOTAL

AGE BY PROBLEMS AT ADMISSION

	TOTAL	UNDER 5	05-09	10-14	15-17	18-19	20-24	25-34	35-44	45-54	55-64	OVER 64
TOTAL	6287	20	230	397	373	154	690	1720	1131	672	503	397
SLEEP PROBLEMS*	1445	5	9	15	35	30	154	497	319	191	120	70
EATING PROBLEMS	670	2	15	8	14	13	79	241	143	77	48	30
ENURESIS, SOILING	74	2	22	18	2			8	6	3	3	10
SEIZURES, CONVULSION	75	2	6	1	3	4	8	19	15	7	6	4
SPEECH PROBLEMS	179	4	26	21	11	6	13	32	18	19	15	14
OTHER PHY-SICAL PROB	797	2	27	15	19	12	79	229	160	97	80	77
INADEQUATE INTELLECT	302	3	25	47	31	8	36	67	38	22	13	12
SOCIAL PRB WITH CHILD	862	3	110	153	88	15	36	167	161	74	35	20
SOCIAL PRB WITH* MATE	1734	6	81	138	140	27	169	503	361	144	70	35
SOCIAL PRB OTHR FAMLY	1305	5	66	154	163	69	165	370	164	81	40	28
SOCIAL PRB OTHR PEOPL	1913	4	77	154	116	68	247	620	340	135	100	52
JOB IMPAIRMENT	1541	1	43	89	64	24	195	609	306	119	70	21
SCHOOL IMPAIRMENT	887	6	160	265	228	68	66	71	15	4	2	2
HOUSEKEEP IMPAIRMENT	596	1	18	56	32	8	51	151	108	84	49	38
SUICIDAL THOUGHTS	703		6	8	39	16	94	257	165	58	41	19
SUICIDE GE -STURE ACT	271		1	7	32	12	33	93	55	23	10	5
ANXIETY PHOBIAS	1415	2	30	43	39	23	170	495	324	164	92	33
OBSESSIONS COMPULSION	280		2	10	8	7	35	89	60	33	22	14
DEPRESSION INFERIORITY	2435		27	84	118	69	276	860	496	269	143	93
HYPOCHON-DRIAS	371		8	8	6	4	29	108	80	63	42	23

*PROB OR PRB=PROBLEMS; WITH MATE=WITH SPOUSE, MATE.
FOR CHILDREN: INADEQUATE INTELLECT=DELAY, SOCIAL PROBLEMS WITH CHILD=PEERS,
SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 1 (CONT'D.)

PATIENTS ACTIVE 12/31/82, IN STATE MENTAL HEALTH FACILITIES
BY MOST RECENT PROBLEMS AND AGE AS OF 12/31/82

SEX = TOTAL

AGE BY PROBLEMS AT ADMISSION

	TOTAL	UNDER 5	05-09	10-14	15-17	18-19	20-24	25-34	35-44	45-54	55-64	OVER 64
SOCIAL ISOLATION	1183	1	23	52	52	30	142	406	205	122	80	70
DEPENDENCY CLINGING	554	2	16	26	15	12	66	197	106	60	33	21
GRANDIOSITY	200		1		1	3	30	74	47	23	18	3
SUSPICION PERSECUTIN	752		2	4	16	8	92	293	156	90	52	39
DELUSIONS	594		1	4	4	10	73	196	143	78	50	35
HALLUCINATIONS	638		1	3	2	13	86	226	153	76	43	35
ANGER, NEGATIVISM	1587	4	71	146	105	44	244	496	257	107	66	47
ASSAULTIVE ACTS	769	1	26	45	47	26	176	256	126	44	23	19
ALCOHOL ABUSE	700			1	21	15	161	253	136	65	37	11
SEXUAL PROBLEMS	343		3	7	24	7	47	149	68	23	9	6
NARCOTICS, OTHR DRUGS	606			4	45	30	167	267	79	12	1	1
ANTI-SOCIAL	664		13	58	87	41	219	292	109	25	16	4
AGITATION, HYPERACTIV	720	5	78	64	16	20	68	199	126	61	50	33
DISORIENTD MEMORY PRB	355		4	5	3	5	28	96	65	36	42	71
SPEECH DIS -ORGANIZED	262	1	9	5	3	4	24	90	59	26	16	25
SLOWED UP NO EMOTION	506		6	13	14	14	79	180	86	47	37	30
INAPPROPRI -ATENESS	664		9	13	9	14	95	235	142	68	52	27
ROUTINE IMPAIRED	1125	1	15	19	28	24	151	386	226	123	82	70
MISSING	926	2	3	10	12	7	20	111	159	203	211	188

*PRCB OR PRB=PROBLEMS; WITH MATE=WITH SPOUSE, MATE.
FOR CHILDREN: INADEQUATE INTELLECT=DELAY, SOCIAL PROBLEMS WITH CHILD=PEERS,
SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 1A

PATIENTS ACTIVE 12/31/82, IN STATE MENTAL HEALTH FACILITIES
BY MOST RECENT PROBLEMS AND AGE AS OF 12/31/82

SEX = MALE

AGE BY PROBLEMS AT ADMISSION

	TOTAL	UNDER 5	05-09	10-14	15-17	18-19	20-24	25-34	35-44	45-54	55-64	OVER 64
TOTAL	3473	15	164	290	233	94	445	989	570	303	198	172
SLEEP PROBLEMS*	641	4	5	9	18	15	75	243	134	71	39	28
EATING PROBLEMS	250	2	8	7	8	4	31	97	43	27	11	12
ENURESIS, SOILING	48	2	17	15	2			3	3		1	5
SEIZURES, CONVULSION	41	2	3		1	3	3	12	9	3	2	3
SPEECH PROBLEMS	124	4	21	17	8	6	10	20	10	10	9	9
OTHER PHYSICAL PROB	343	1	24	8	9	8	36	106	60	26	34	29
INADEQUATE INTELLECT	201	3	17	30	22	7	30	49	21	11	5	6
SOCIAL PRB WITH CHILD	371	3	84	112	55	9	8	31	39	21	4	5
SOCIAL PRB WITH* MATE	778	4	56	94	73	17	79	208	141	64	23	19
SOCIAL PRB OTHR FAMLY	715	4	50	110	104	34	93	197	71	27	14	11
SOCIAL PRB OTHR PEOPL	1168	4	58	111	85	41	162	395	180	65	47	20
JOB IMPAIRMENT	991	1	31	66	33	18	139	413	179	60	40	11
SCHOOL IMPAIRMENT	622	5	126	200	156	40	42	45	6	1	1	
HOUSEKEEP IMPAIRMENT	173	1	14	39	14	5	20	33	20	11	5	11
SUICIDAL THOUGHTS	339		5	6	19	8	51	129	75	23	14	9
SUICIDE GE -STURE ACT	124		1	5	12	7	17	46	22	10	2	2
ANXIETY PHOBIAS	589	1	18	26	22	12	87	211	116	56	31	9
OBSESSIONS COMPULSION	133		1	9	5	3	18	38	30	17	7	5
DEPRESSION INFERIORTY	1065		19	53	65	32	130	370	208	104	46	34
HYPOCHON-DRIAS	146		4	5	3	1	10	46	35	19	19	4

*PROB OR PRB=PROBLEMS; WITH MATE=WITH SPOUSE, MATE.
FOR CHILDREN: INADEQUATE INTELLECT=DELAY, SOCIAL PROBLEMS WITH CHILD=PEERS,
SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 1A (CONT'D.)

PATIENTS ACTIVE 12/31/82, IN STATE MENTAL HEALTH FACILITIES
BY MOST RECENT PROBLEMS AND AGE AS OF 12/31/82

SEX = MALE

AGE BY PROBLEMS AT ADMISSION

	TOTAL	UNDER 5	05-09	10-14	15-17	18-19	20-24	25-34	35-44	45-54	55-64	OVER 64
SOCIAL ISOLATION	649	1	15	35	37	18	92	230	111	50	31	29
DEPENDENCY CLINGING	243	2	11	16	6	8	34	91	41	20	11	3
GRANDIOSITY	134		1			3	24	55	30	14	7	
SUSPICION PERSECUTN	473		2	3	11	7	69	210	92	39	23	17
DELUSIONS	350		1	3	3	10	53	138	85	30	23	10
HALLUCI-NATIONS	372			2	2	10	65	151	85	26	18	13
ANGER, NEGATIVISM	978	3	54	111	68	28	161	318	136	53	22	24
ASSAULTIVE ACTS	642	1	19	41	38	24	160	206	98	29	13	13
ALCOHOL ABUSE	538				9	9	138	199	100	47	20	10
SEXUAL PROBLEMS	194		3	4	9	4	31	79	41	11	7	5
NARCOTICS, OTHR DRUGS	496			3	36	21	141	224	61	10		
ANTI-SOCIAL	750		12	48	69	33	202	265	89	20	10	2
AGITATION, HYPERACTIV	443	4	66	58	12	17	45	127	57	25	20	12
DISORIENTD MEMORY PRB	183		2	5	2	2	19	65	30	12	16	30
SPEECH:DIS-ORGANIZED	159	1	7	4	2	3	18	64	34	9	6	11
SLOWED UP NG EMOTION	295		5	6	9	9	53	116	41	21	17	18
INAPPROPRI-ATENESS	369		8	11	5	10	65	150	71	23	15	11
ROUTINE IMPAIRED	583	1	11	14	13	19	83	212	116	58	29	27
MISSING	471	1	1	5	9	5	12	73	92	98	87	88

*PROB OR PRB=PROBLEMS; WITH MATE=WITH SPOUSE, MATE.
FOR CHILDREN: INADEQUATE INTELLECT=DELAY, SOCIAL PROBLEMS WITH CHILD=PEERS,
SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 18

PATIENTS ACTIVE 12/31/82, IN STATE MENTAL HEALTH FACILITIES
BY MOST RECENT PROBLEMS AND AGE AS OF 12/31/82

SEX = FEMALE

AGE BY PROBLEMS AT ADMISSION

	TOTAL	UNDER 5	05-09	10-14	15-17	18-19	20-24	25-34	35-44	45-54	55-64	OVER 64
TOTAL	2814	5	66	107	140	60	245	731	561	369	305	225
SLEEP PROBLEMS*	804	1	4	6	17	15	79	254	185	120	81	42
EATING PROBLEMS	420		7	1	6	9	48	144	100	50	37	18
ENURESIS, SOILING	26		5	3				5	3	3	2	5
SEIZURES, CONVULSION	34		3	1	2	1	5	7	6	4	4	1
SPEECH PROBLEMS	55		5	4	3		3	12	8	9	6	5
OTHER PHYSICAL PROB	454	1	3	7	10	4	43	123	100	69	46	48
INADEQUATE INTELLECT	101		8	17	9	1	6	18	17	11	8	6
SOCIAL PRB WITH CHILD	491		26	41	33	6	28	136	122	53	31	15
SOCIAL PRB WITH* MATE	956	2	25	44	67	10	90	355	220	80	47	16
SOCIAL PRB OTHR FAMLY	540	1	16	44	59	35	72	173	93	54	26	17
SOCIAL PRB OTHR PEOPL	745		19	43	31	27	85	225	160	70	53	32
JOB IMPAIRMENT	550		12	23	31	6	56	196	127	59	30	10
SCHOOL IMPAIRMENT	265	1	34	65	72	28	24	26	9	3	1	2
HOUSEKEEP IMPAIRMENT	423		4	17	18	3	31	118	88	73	44	27
SUICIDAL THOUGHTS	364		1	2	20	8	43	128	90	35	27	10
SUICIDE GESTURE ACT	147			2	20	5	16	47	33	13	8	3
ANXIETY PHOBIAS	626	1	12	17	17	11	83	284	203	108	61	24
OBSESSIONS COMPULSION	147		1	1	3	4	17	51	30	16	15	9
DEPRESSION INFERIORITY	1370		8	31	49	37	146	490	288	165	97	59
HYPOCHONDRIAS	225		4	3	3	3	19	62	45	44	23	19

*PROB OR PRB=PROBLEMS; WITH MATE=WITH SPOUSE, MATE.
FOR CHILDREN: INADEQUATE INTELLECT=DELAY, SOCIAL PROBLEMS WITH CHILD=PEERS,
SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 1B (CONT'D.)

PATIENTS ACTIVE 12/31/82, IN STATE MENTAL HEALTH FACILITIES
BY MOST RECENT PROBLEMS AND AGE AS OF 12/31/82

SEX = FEMALE

AGE BY PROBLEMS AT ADMISSION

	TOTAL	UNDER 5	05-09	10-14	15-17	18-19	20-24	25-34	35-44	45-54	55-64	OVER 64
SOCIAL ISOLATION	534		8	17	15	12	50	176	94	72	49	41
DEPENDENCY CLINGING	311		5	10	9	4	32	106	65	40	22	18
GRANDIOSITY	66				1		6	19	17	9	11	3
SUSPICION PERSECUTIN	279			1	5	1	23	83	64	51	29	22
DELUSIONS	238			1	1		20	58	58	48	27	25
HALLUCINATIONS	266		1	1		3	21	75	68	50	25	22
ANGER, NEGATIVISM	609	1	17	35	37	16	83	178	121	54	44	23
ASSAULTIVE ACTS	147		7	4	5	2	16	50	28	15	10	6
ALCOHOL ABUSE	162			1	12	6	23	54	30	18	17	1
SEXUAL PROBLEMS	149			3	15	3	16	70	27	12	2	1
NARCOTICS, OTHR DRUGS	110			1	5	9	26	43	18	2	1	1
ANTI-SOCIAL	114		1	10	18	8	17	27	20	5	6	2
AGITATION, HYPERACTIV	277	1	12	6	4	3	23	72	69	36	30	21
DISORIENTD MEMORY PRB	172		2		1	3	9	31	35	24	26	41
SPEECH DIS-ORGANIZED	103		2	1	1	1	6	26	25	17	10	14
SLOWED UP NC EMOTION	211		1	7	5	5	26	64	45	26	20	12
INAPPROPRI-ATENESS	295		1	2	4	4	30	85	71	45	37	16
ROUTINE IMPAIRED	542		4	5	15	5	68	174	110	65	53	43
MISSING	455	1	2	5	3	2	8	38	67	105	124	100

*PROB OR PRB=PROBLEMS; WITH MATE=WITH SPOUSE, MATE.
FOR CHILDREN: INADEQUATE INTELLECT=DELAY, SOCIAL PROBLEMS WITH CHILD=PEERS,
SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 2

PATIENTS ACTIVE 12/31/32, IN STATE MENTAL HEALTH FACILITIES
BY COMPREHENSIVE CENTERS OR SPECIAL SERVICES AND TYPE OF SERVICE

COMPREHENSIVE MH CENTER OR SERVICE BY TYPE OF CARE

	TOTAL	CENTRAL OAHU	WIND-WARD	LEEWARD	DIAMOND HEAD	KALIHI-PALAMA	MAUI	EAST HAWAII	WEST HAWAII	KAUAI	HSH & CENTRAL SRVS	OTHER SRVS
INPATIENT CARE	336	24	10	13	24	15	4	13	1	27	194	11
OUT-PATIENT	5951	435	635	694	824	603	493	789	439	352	627	

TABLE 3A

PATIENTS ACTIVE 12/31/82, IN STATE MENTAL HEALTH FACILITIES
BY MOST RECENT PROBLEMS AND AGE AS OF 12/31/82

TYPE OF CARE = INPATIENT CARE

AGE BY PROBLEMS AT ADMISSION

	TOTAL	UNDER 5	05-09	10-14	15-17	18-19	20-24	25-34	35-44	45-54	55-64	OVER 64
TOTAL	336		2	6	22	14	44	116	70	33	22	7
SLEEP PROBLEMS*	69				5	2	4	22	16	15	3	2
EATING PROBLEMS	35			1	1	1	2	16	8	6		
ENURESIS, SOILING	4			1				2	1			
SEIZURES, CONVULSION	5				1		1	2			1	
SPEECH PROBLEMS	13				1	1		4	4	1	2	
OTHER PHYSICAL PROB	36			1	4		5	12	5	4	4	1
INADEQUATE INTELLECT	17			2	2	1	1	5	4	1	1	
SOCIAL PRB WITH CHILD	14		2	3	2			3	1	2		1
SOCIAL PRB WITH* MATE	71		1	5	13	1	14	16	9	9	3	
SOCIAL PRB OTHR FAMLY	59		2	4	6	4	11	24	5	1	1	1
SOCIAL PRB OTHR PEOPL	161		1	4	6	9	22	54	39	15	10	1
JOB IMPAIRMENT	75		1	2	2	4	12	26	12	9	6	1
SCHOOL IMPAIRMENT	38		2	4	14	6	4	6	1		1	
HOUSEKEEP IMPAIRMENT	46		1	3	2		5	12	11	8	2	2
SUICIDAL THOUGHTS	54				4	2	8	24	12	3	1	
SUICIDE GE-STURE ACT	32				7	2	5	10	6		1	1
ANXIETY PHOBIAS	48			2		3	8	21	7	5	2	
OBSESSIONS COMPULSION	16			1		2	3	3	5	2		
DEPRESSION INFERIORITY	91		1	2	3	5	15	32	20	10	2	1
HYPOCHON-DRIAS	14				2		1	5	3		2	1

*PROB OR PRB=PROBLEMS; WITH MATE=WITH SPOUSE, MATE.
FOR CHILDREN: INADEQUATE INTELLECT=DELAY, SOCIAL PROBLEMS WITH CHILD=PEERS,
SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 3A (CONT'D.)

PATIENTS ACTIVE 12/31/82, IN STATE MENTAL HEALTH FACILITIES
BY MOST RECENT PROBLEMS AND AGE AS OF 12/31/82

TYPE OF CARE = INPATIENT CARE

AGE BY PROBLEMS AT ADMISSION

	TOTAL	UNDER 5	05-09	10-14	15-17	18-19	20-24	25-34	35-44	45-54	55-64	OVER 64
SOCIAL ISOLATION	80		1		1	4	11	28	21	9	5	
DEPENDENCY CLINGING	33			1		1	5	13	7	5	1	
GRANDIOSITY	37					1	6	14	11	3	2	
SUSPICION PERSECUTIN	96			1	1	1	19	39	17	10	6	2
DELUSIONS	95					3	16	38	25	9	3	1
HALLUCINATIONS	94				1	7	17	41	24	3	1	
ANGER, NEGATIVISM	115		1	4	7	5	16	46	18	12	5	1
ASSAULTIVE ACTS	86		1	2	6	4	17	31	13	8	3	1
ALCOHOL ABUSE	40				3		5	15	6	7	2	2
SEXUAL PROBLEMS	19			2	4		1	9	2	1		
NARCOTICS, OTHR DRUGS	35				4	7	12	10	2			
ANTI-SOCIAL	76			2	11	5	8	26	15	5	3	1
AGITATION, HYPERACTIV	79		1		2	5	10	29	17	11	4	
DISORIENTD MEMORY PRB	41					1	5	16	15	2	1	1
SPEECH DIS-ORGANIZED	61					1	8	26	18	6	2	
SLOWED UP NC EMOTION	56				1	4	8	22	13	4	3	1
INAPPROPRI-ATENESS	114			1	1	5	16	50	26	11	4	
ROUTINE IMPAIRED	83			1	5	6	14	25	19	9	2	2
MISSING	38				1	1		9	12	5	8	2

*PROB OR PRB=PROBLEMS; WITH MATE=WITH SPOUSE, MATE.
FOR CHILDREN: INADEQUATE INTELLECT=DELAY, SOCIAL PROBLEMS WITH CHILD=PEERS,
SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 38

PATIENTS ACTIVE 12/31/82, IN STATE MENTAL HEALTH FACILITIES
BY MOST RECENT PROBLEMS AND AGE AS OF 12/31/82

TYPE OF CARE= OUTPATIENT CARE

AGE BY PROBLEMS AT ADMISSION

	TOTAL	UNDER 5	05-09	10-14	15-17	18-19	20-24	25-34	35-44	45-54	55-64	OVER 64
TOTAL	5951	20	228	391	351	140	646	1604	1061	639	481	390
SLEEP PROBLEMS*	1376	5	9	15	30	28	150	475	303	176	117	68
EATING PROBLEMS	635	2	15	7	13	12	77	225	135	71	46	30
ENURESIS, SOILING	70	2	22	17	2			6	5	3	3	10
SEIZURES, CONVULSION	70	2	6	1	2	4	7	17	15	7	5	4
SPEECH PROBLEMS	166	4	26	21	10	5	13	28	14	18	13	14
OTHER PHYSICAL PROB	761	2	27	14	15	12	74	217	155	93	76	76
INADEQUATE INTELLECT	285	3	25	45	29	7	35	62	34	21	12	12
SOCIAL PRB WITH CHILD	848	3	108	150	86	15	36	164	160	72	35	19
SOCIAL PRB WITH* MATE	1663	6	80	133	127	26	155	547	352	135	67	35
SOCIAL PRB OTHR FAMLY	1246	5	64	150	157	65	154	346	159	80	39	27
SOCIAL PRB OTHR PEOPL	1752	4	76	150	110	59	225	566	301	120	90	51
JOB IMPAIRMENT	1466	1	42	87	62	20	183	583	294	110	64	20
SCHOOL IMPAIRMENT	849	6	158	261	214	62	62	65	14	4	1	2
HOUSEKEEP IMPAIRMENT	550	1	17	53	30	8	46	139	97	76	47	36
SUICIDAL THOUGHTS	649		6	8	35	14	86	233	153	55	40	19
SUICIDE GE-STURE ACT	239		1	7	25	10	28	83	49	23	9	4
ANXIETY PHOBIAS	1367	2	30	41	35	20	162	474	317	159	90	33
OBSESSIONS COMPULSION	264		2	5	8	5	32	86	55	31	22	14
DEPRESSION INFERIORITY	2344		26	82	115	64	261	828	476	259	141	92
HYPOCHONDRIAS	357		8	8	4	4	28	103	77	63	40	22

*PROB OR PRB=PROBLEMS; WITH MATE=WITH SPOUSE, MATE.
FOR CHILDREN: INADEQUATE INTELLECT=DELAY, SOCIAL PROBLEMS WITH CHILD=PEERS,
SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 38 (CONT'D.)

PATIENTS ACTIVE 12/31/62, IN STATE MENTAL HEALTH FACILITIES
BY MOST RECENT PROBLEMS AND AGE AS OF 12/31/82

TYPE OF CARE= OUTPATIENT CARE

AGE BY PROBLEMS AT ADMISSION

	TOTAL	UNDER 5	05-09	10-14	15-17	18-19	20-24	25-34	35-44	45-54	55-64	OVER 64
SOCIAL ISOLATION	1103	1	22	52	51	26	131	378	184	113	75	70
DEPENDENCY CLINGING	521	2	16	25	15	11	61	184	99	55	32	21
GRANDIOSITY	163		1		1	2	24	60	36	20	16	3
SUSPICION PERSECUTIN	656		2	3	15	7	73	254	139	80	46	37
DELUSIONS	499		1	4	4	7	57	158	118	69	47	34
HALLUCINATIONS	544		1	3	1	6	69	185	129	73	42	35
ANGER, NEGATIVISM	1472	4	70	142	98	39	228	450	239	95	61	46
ASSAULTIVE ACTS	703	1	25	43	41	22	159	225	113	36	20	18
ALCOHOL ABUSE	660			1	18	15	156	238	130	58	35	9
SEXUAL PROBLEMS	324		3	5	20	7	46	140	66	22	9	6
NARCOTICS, OTHR DRUGS	571			4	41	23	155	257	77	12	1	1
ANTI-SOCIAL	788		13	56	76	36	211	266	194	20	13	3
AGITATION, HYPERACTIV	641	5	77	64	14	15	58	170	109	50	46	33
DISORIENTD MEMORY PRB	314		4	5	3	4	23	80	50	34	41	70
SPEECH DIS-ORGANIZED	201	1	9	5	3	3	16	64	41	20	14	25
SLOWED UP NC EMOTION	450		6	13	13	10	71	158	73	43	34	29
INAPPROPRI-ATENESS	550		9	12		9	79	185	116	57	48	27
ROUTINE IMPAIRED	1042	1	15	18	23	18	137	361	207	114	80	68
MISSING	888	2	3	10	11	6	20	132	147	198	203	186

*PROB OR PRB=PROBLEMS; WITH MATE=WITH SPOUSE, MATE.
FOR CHILDREN: INADEQUATE INTELLECT=DELAY, SOCIAL PROBLEMS WITH CHILD=PEERS,
SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 4

ADMISSIONS TO STATE MENTAL HEALTH FACILITIES, 1/1/82 TO 12/31/82
BY AGE AND PROBLEMS ON ADMISSION

AGE BY PROBLEMS AT ADMISSION

	TOTAL	UNDER 5	05-09	10-14	15-17	18-19	20-24	25-34	35-44	45-54	55-64	OVER 64
TOTAL	4885	32	240	357	307	179	760	1546	774	366	203	121
SLEEP PROBLEMS*	1251	5	17	15	37	38	192	476	238	120	68	45
EATING PROBLEMS	588	4	14	6	14	22	83	241	113	48	24	19
ENURESIS, SOILING	62	6	26	10	1		1	5	4		2	7
SEIZURES, CONVULSION	92	2	6	3	6	9	9	32	13	7	1	4
SPEECH PROBLEMS	148	4	22	11	8	9	10	27	20	15	9	13
OTHER PHYSICAL PROB	608	4	22	14	23	17	73	194	112	57	53	39
INADEQUATE INTELLECT	178	5	21	36	18	9	19	32	21	9	5	3
SOCIAL PRB WITH CHILD	749	7	120	174	83	9	51	138	101	32	18	16
SOCIAL PRB WITH* MATE	1709	10	120	183	169	42	248	515	257	97	39	29
SOCIAL PRB OTHR FAMLY	646	4	46	99	77	40	144	252	105	35	31	13
SOCIAL PRB OTHR PEOPL	1711	5	65	115	76	64	278	584	288	130	65	41
JOB IMPAIRMENT	1382	2	55	108	75	46	248	490	232	79	34	13
SCHOOL IMPAIRMENT	651	10	155	213	149	22	31	49	14	7	1	
HOUSEKEEP IMPAIRMENT	564	3	30	65	33	15	53	161	97	53	34	20
SUICIDAL THOUGHTS	807	2	8	19	44	27	155	314	137	62	28	11
SUICIDE GE -STURE ACT	370	1	2	8	35	14	62	155	58	24	7	4
ANXIETY PHOBIAS	1228	4	33	46	41	38	188	481	232	96	47	22
OBSESSIONS COMPULSION	241		2	8	6	7	39	85	49	21	16	8
DEPRESSION INFERIORTY	2015		36	99	98	73	313	762	335	176	73	50
HYPOCHON-DRIAS	302		9	10	6	9	38	100	58	32	23	17

*PROB OR PRB=PROBLEMS; WITH MATE=WITH SPOUSE, MATE.
FOR CHILDREN: INADEQUATE INTELLECT=DELAY, SOCIAL PROBLEMS WITH CHILD=PEERS,
SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 4 (CONT'D.)

ADMISSIONS TO STATE MENTAL HEALTH FACILITIES. 1/1/82 TO 12/31/82
BY AGE AND PROBLEMS ON ADMISSION

AGE BY PROBLEMS AT ADMISSION

	TOTAL	UNDER 5	05-09	10-14	15-17	18-19	20-24	25-34	35-44	45-54	55-64	OVER 64
SOCIAL ISOLATION	931	1	21	47	44	33	150	329	155	68	42	31
DEPENDENCY CLINGING	512	2	20	19	14	23	87	137	81	46	26	7
GRANDIOSITY	317		1	1	4	8	52	108	74	36	19	14
SUSPICION PERSECUTIN	773	1	2	6	19	23	141	297	151	68	40	25
DELUSIONS	656	1	1	2	15	21	113	232	160	60	25	26
HALLUCI-NATIONS	671	1	1	3	16	23	130	264	136	53	26	18
ANGER, NEGATIVISM	1475	8	73	129	55	60	259	443	233	89	56	30
ASSAULTIVE ACTS	766	3	20	41	44	46	176	225	132	44	23	12
ALCOHOL ABUSE	743	1		5	20	31	151	267	133	72	37	16
SEXUAL PROBLEMS	275		2	9	19	15	52	110	41	20	6	1
NARCOTICS, OTHR DRUGS	531			14	48	40	137	222	60	7	2	1
ANTI-SOCIAL	773		10	66	76	53	172	223	105	41	13	14
AGITATION, HYPERACTIV	736	9	58	34	12	31	102	229	134	63	38	26
DISORIENTD MEMORY PRB	334		2	2	5	10	44	113	55	31	32	40
SPEECH DIS -ORGANIZED	295		6	4	5	10	45	106	55	35	16	13
SLOWED UP NC EMOTION	460	1	7	13	15	28	92	166	78	25	21	14
INAPPROPRI -ATENESS	743		10	8	18	29	144	269	144	69	32	20
ROUTINE IMPAIRED	733	3	7	14	26	32	166	349	173	85	45	33
MISSING	267	4	10	28	23	12	41	69	41	29	24	6

*PROB OR PRB=PROBLEMS; WITH MATE=WITH SPOUSE, MATE.
FOR CHILDREN: INADEQUATE INTELLECT=DELAY, SOCIAL PROBLEMS WITH CHILD=PEERS,
SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 5

ADMISSIONS TO STATE MENTAL HEALTH FACILITIES. 1/1/82 TO 12/31/82
BY ETHNIC GROUP AND CATCHMENT AREA ON ADMISSION

CATCHMENT AREA BY ETHNIC GROUP OF CLIENT

	TOTAL	DIAMOND HEAD	KALIHI-PALAMA	CENTRAL OAHU	WIND-WARD	LEEWARD	EAST HAWAII	WEST HAWAII	MAUI	KAUAI	OTHER	UNKNOWN
ETHNIC TOTALS	4885	770	675	536	402	463	216	299	353	167	1001	3
CAUCASIAN	1666	302	104	112	149	82	84	154	132	67	479	1
HAWAIIAN	49	5	8	3	5	2	1	7	6	4	8	
CHINESE	128	49	40	5	7	5	1	2	1	1	17	
FILIPINO	457	18	126	70	10	73	20	24	36	26	54	
JAPANESE	507	127	78	83	38	28	29	8	37	9	69	1
PUERTO RCN	82	4	20	8	3	12	4	5	5		21	
PART HAWAN	766	75	99	89	92	123	38	45	65	20	120	
PORTUGUESE	163	12	15	9	18	33	11	10	25	11	19	
AMERICAN INDIAN	8	1			1	1		1	2		2	
S. EAST ASIAN	9		1	3		1					4	
MIXED	478	73	92	81	46	50	13	15	28	18	62	
OTHER	456	91	81	61	31	26	13	21	9	8	114	1
UNKNOWN	109	11	11	11	2	24	2	7	7	3	31	
MISSING	7	2		1		3					1	

TABLE 6

ADMISSIONS TO STATE MENTAL HEALTH FACILITIES. 1/1/82 TO 12/31/82
BY REFERRAL SOURCE AND COMMUNITY MENTAL HEALTH CENTER OR SERVICE

COMPREHENSIVE MH CENTER OR SERVICE BY SOURCE OF REFERRAL

	TOTAL	CENTRAL OAHU	WIND-WARD	LEEWARD	DIAMOND HEAD	KALIHI-PALAMA	MAUI	EAST HAWAII	WEST HAWAII	KAUAI	HSH & CENTRAL SRVS	OTHER SRVS
SELF FAMILY FRIEND	1467	163	133	192	287	119	123	85	207	106	81	1
PRIVATE PRACTIC PROFESS	164	10	13	9	27	40	6	7	20	11	14	7
OTHER PSYCH. HOSP.	322	54	24	41	93	85	1	7	3	7	7	
COMUNTY M.H. CENTER	97	12	5	6	21	19	6	6	2	8	6	6
OTHER NONPSYC HOSP	390	52	33	42	118	88	7	7	5	16	20	2
COURT ENFORCE CORRECT	958	46	14	22	19	42	39	48	19	31	678	
OUTPAT M.H. CLINIC	9		2		3	1					3	
SCHOOL SYSTEM	407	60	32	71	71	76	40	31		14	10	2
SOCIAL OR COM. AGENCY	169	10	8	18	24	37	22	11	10	6	21	1
NON-PSYCH. PHYSICN	133	9	4	14	6	8	21	21	31	6	12	1
CLERGY	19		2		1	9	2	2		3		
PUBLIC PSYCH. HOSP.	220	31	38	28	39	54	13	6	1	7	1	2
OTHER	367	50	33	52	56	48	34	14	17	21	40	4
UNKNOWN	164	3	3	10	18	15	2		2	10	31	70

TABLE 7

UNDUPLICATED ADMISSIONS TO STATE MENTAL HEALTH FACILITIES
1/1/82 TO 12/31/82 ETHNIC GROUP BY PROBLEMS ON ADMISSION
INCLUDING MEAN AGE ON ADMISSION

SEX = TOTAL

ETHNIC GROUP OF CLIENT BY PROBLEMS AT ADMISSION

	ETHNIC TOTALS	CAUCA-SIAN	HAWAI-IAN	CHINESE	FILI-PINO	JAPAN-ESE	PUERTO RICAN	PART HAWAN.	PORTU-GUESE	AMERICN INDIAN	S. EAST ASIAN	MIXED	OTHER	UNKNOWN	MISSING	
TOTAL	4163	1454	41	115	376	430	64	641	137	8	9	420	378	85	5	NUMBERS
	29.6	30.7	39.6	35.6	29.1	34.0	33.0	25.7	33.5	25.1	30.3	21.9	27.0	26.4	28.2	MEAN AGE
SLEEP	1048	402	5	41	91	122	13	144	39	1	3	78	91	17	1	NUMBERS
PROBLEMS*	33.7	33.9	24.6	40.8	33.6	38.2	37.8	31.2	38.7	31.0	29.7	29.6	29.6	30.6	41.0	MEAN AGE
EATING	520	204	3	15	51	53	7	79	14	2	1	45	39	7		NUMBERS
PROBLEMS	32.4	32.3	25.7	42.1	31.5	36.5	41.4	32.5	39.0	18.5	22.0	27.4	28.6	29.1		MEAN AGE
ENURESIS,	58	24		1	4	5	3	9				3	8	1		NUMBERS
SOILING	19.2	22.1		0.0	15.2	42.2	40.7	6.8				6.7	12.0	8.0		MEAN AGE
SEIZURES,	68	28			4	5	1	12	3			8	4	3		NUMBERS
CONVULSION	23.5	31.0			21.5	36.0	16.0	28.0	40.3			17.1	29.0	25.0		MEAN AGE
SPEECH	131	40	1	4	15	18	4	14	5	1	2	14	11	2		NUMBERS
PROBLEMS	30.0	31.1	59.0	60.7	26.1	34.5	40.0	23.4	46.4	14.0	27.0	11.9	33.7	24.0		MEAN AGE
OTHER PHY-	552	215	5	23	40	66	11	63	24	3	1	51	37	9		NUMBERS
SICAL PROB	34.9	33.8	49.6	40.3	35.1	43.7	44.1	31.7	40.7	30.7	22.0	26.9	30.1	35.9		MEAN AGE
INADEQUATE	150	30	1	1	19	10	4	36	10		1	20	12	6		NUMBERS
INTELLECT	22.0	22.1	59.0	15.0	20.7	28.9	28.7	21.4	25.6		22.0	13.9	23.5	25.8		MEAN AGE
SOCIAL PRB	718	221	3	20	58	54	11	138	27	2	1	99	67	16	1	NUMBERS
WITH CHILD	23.2	23.3	26.7	41.6	25.8	28.9	25.9	19.1	27.9	18.5	22.0	17.3	18.4	22.2	41.0	MEAN AGE
SOCIAL PRB	1550	593	17	30	147	132	18	238	51	1	4	165	131	21	2	NUMBERS
WITH* MATE	26.7	28.6	37.0	33.0	27.8	30.9	25.6	23.6	29.3	31.0	19.5	20.2	23.8	23.3	18.5	MEAN AGE
SOCIAL PRB	719	206	9	17	62	68	8	121	33	1	3	99	61	9	2	NUMBERS
OTHR FAMLY	25.7	27.8	29.7	25.7	24.9	31.4	29.1	22.8	33.5	17.0	23.7	19.8	22.8	19.8	28.0	MEAN AGE
SOCIAL PRB	1412	501	9	33	98	164	23	213	53	3	2	131	150	31	1	NUMBERS
OTHR PEOPL	29.6	31.7	35.6	31.8	29.8	35.4	32.7	24.0	35.7	31.7	28.5	21.8	27.6	28.7	20.0	MEAN AGE

*PROB OR PRB=PROBLEMS; WITH MATE=WITH SPOUSE, MATE.
FOR CHILDREN: INADEQUATE INTELLECT=DELAY, SOCIAL PROBLEMS WITH CHILD=PEERS,
SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 7 (CONT'D.)

UNDUPLICATED ADMISSIONS TO STATE MENTAL HEALTH FACILITIES
1/1/82 TO 12/31/82 ETHNIC GROUP BY PROBLEMS ON ADMISSION
INCLUDING MEAN AGE ON ADMISSION

SEX = TOTAL

ETHNIC GROUP OF CLIENT BY PROBLEMS AT ADMISSION

	ETHNIC TOTALS	CAUCA-SIAN	HAWAI-IAN	CHINESE	FILI-PINO	JAPAN-ESE	PUERTO RICAN	PART HAWAN.	PORTU-GUESE	AMERICN INDIAN	S. EAST ASIAN	MIXED	OTHER	UNKNOWN	MISSING	
SUSPICION	560	187	4	12	61	75	7	81	19		1	45	59	4	1	NUMBERS
PERSECUTIN	33.5	33.1	43.2	29.5	32.9	39.4	38.7	31.6	39.4		35.0	29.4	31.8	26.0	20.0	MEAN AGE
DELUSIONS	433	135	5	11	44	75	7	53	17		1	33	47	4	1	NUMBERS
	34.7	34.6	43.8	35.4	34.5	37.7	32.9	33.0	39.5		35.0	30.5	32.9	40.5	20.0	MEAN AGE
HALLUCI-	452	124	8	10	58	72	10	63	13		2	37	50	5		NUMBERS
NATIONS	33.2	34.2	42.7	29.9	32.5	37.5	34.9	30.0	36.7		32.0	27.2	31.6	34.8		MEAN AGE
ANGER,	1256	419	12	15	99	107	24	208	35	3	3	166	124	20	1	NUMBERS
NEGATIVISM	27.6	28.7	46.8	28.2	29.6	35.5	30.0	24.0	33.3	28.7	29.0	22.4	26.4	26.8	20.0	MEAN AGE
ASSAULTIVE	601	162	7	8	52	42	19	114	16	1	2	88	81	9		NUMBERS
ACTS	28.0	28.9	33.9	36.0	32.3	37.1	28.1	25.6	29.9	32.0	24.5	21.7	28.3	21.6		MEAN AGE
ALCOHOL	630	281	4	6	37	30	15	101	14	1		69	63	9		NUMBERS
ABUSE	32.3	34.4	35.0	42.0	34.1	32.1	32.2	29.2	35.9	32.0		28.4	30.3	30.0		MEAN AGE
SEXUAL	233	107	3	2	12	13	2	32	8			24	25	5		NUMBERS
PROBLEMS	29.2	31.4	31.0	41.0	31.6	29.8	33.5	22.6	33.1			25.6	27.4	28.4		MEAN AGE
NARCOTICS,	453	158	3	4	26	30	9	95	13	1		69	40	5		NUMBERS
OTHR DRUGS	26.0	27.9	26.0	35.0	24.3	26.9	25.6	24.1	24.6	32.0		24.7	25.8	24.2		MEAN AGE
ANTI-	657	180	7	9	36	47	19	143	17	1	1	97	88	10	2	NUMBERS
SOCIAL	26.3	28.5	38.9	34.7	24.9	31.8	27.9	23.7	29.4	32.0	12.0	22.3	25.4	27.0	22.0	MEAN AGE
AGITATION,	560	216	4	8	44	60	10	81	15		1	54	55	11	1	NUMBERS
HYPERACTIV	30.3	29.9	50.2	37.7	32.7	40.7	33.5	24.6	39.4		32.0	23.6	27.5	31.8	20.0	MEAN AGE
DISORIENTD	257	99	6	6	21	30	6	34	16			17	18	4		NUMBERS
MEMORY PRB	40.7	39.4	64.0	29.3	43.1	50.8	49.8	37.2	49.5			29.3	33.4	32.2		MEAN AGE
SPEECH DIS	215	74	4	6	25	25	4	32	10			16	16	2	1	NUMBERS
-ORGANIZED	34.4	34.2	49.0	29.7	37.0	42.2	50.2	29.2	45.7			21.2	31.0	33.0	24.0	MEAN AGE

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SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 7 (CONT'D.)

UNDUPLICATED ADMISSIONS TO STATE MENTAL HEALTH FACILITIES
1/1/82 TO 12/31/82 ETHNIC GROUP BY PROBLEMS ON ADMISSION
INCLUDING MEAN AGE ON ADMISSION

SEX = TOTAL

ETHNIC GROUP OF CLIENT BY PROBLEMS AT ADMISSION

	ETHNIC TOTALS	CAUCA-SIAN	HAWAI-IAN	CHINESE	FILI-PINO	JAPAN-ESE	PUERTO RICAN	PART HAWAN.	PORTU-GUESE	AMERICN INDIAN	S. EAST ASIAN	MIXED	OTHER	UNKNOWN	MISSING	
JOB IMPAIRMENT	1194	446	12	30	96	142	17	173	38	4	5	112	103	15	1	NUMBERS
	28.1	30.0	33.1	34.6	27.9	30.9	26.4	24.3	30.0	24.7	26.8	21.5	27.5	29.5	24.0	MEAN AGE
SCHOOL IMPAIRMENT	608	147	3	13	51	50	7	125	21	2	1	104	69	15		NUMBERS
	14.1	14.5	16.0	21.5	14.9	17.3	18.3	12.5	15.0	11.5	12.0	12.3	14.3	14.4		MEAN AGE
HOUSEKEEP IMPAIRMENT	460	175		15	34	58	6	69	18		3	37	37	7	1	NUMBERS
	30.0	30.3		37.2	33.3	36.6	34.0	22.4	41.4		24.0	20.8	30.3	30.3	13.0	MEAN AGE
SUICIDAL THOUGHTS	659	267	6	15	52	71	9	80	28		1	63	51	15	1	NUMBERS
	30.5	31.9	30.2	39.3	28.5	33.0	28.0	26.1	38.8		22.0	26.0	26.7	32.9	41.0	MEAN AGE
SUICIDE GE -STURE ACT	295	128	4	4	21	27	6	31	12			33	26	3		NUMBERS
	29.5	30.3	33.0	44.5	26.1	32.8	32.3	29.1	32.7			24.2	27.3	34.7		MEAN AGE
ANXIETY PHOBIAS	1101	491	5	28	87	124	12	122	42	2	3	89	82	11	3	NUMBERS
	31.2	32.2	32.2	37.6	30.4	34.2	37.7	27.4	38.1	29.0	28.0	24.5	28.3	28.2	34.7	MEAN AGE
OBSESSIONS COMPULSION	210	88	4	6	16	25	2	17	10	1		25	13	3		NUMBERS
	33.7	35.1	24.5	36.3	30.1	33.3	29.0	33.2	50.2	14.0		30.6	26.5	36.7		MEAN AGE
DEPRESSION INFERIORTY	1809	747	12	60	146	201	26	221	72	6	4	163	122	25	4	NUMBERS
	31.2	32.1	33.7	39.3	30.5	33.4	33.6	28.7	36.1	22.0	29.0	24.6	29.4	29.8	32.0	MEAN AGE
HYPOCHON-DRIAS	264	118	2	14	19	33	7	22	10			14	19	6		NUMBERS
	35.4	34.8	56.5	45.3	33.8	39.5	39.7	32.6	40.6			26.6	30.1	31.5		MEAN AGE
SOCIAL ISOLATION	794	293	9	25	75	110	8	93	31	1	3	69	69	7	1	NUMBERS
	31.1	31.6	46.2	34.5	30.3	36.6	31.0	27.2	36.3	14.0	23.7	23.3	28.3	32.6	24.0	MEAN AGE
DEPENDENCY CLINGING	435	183	5	8	25	48	9	42	19	1	2	51	37	5		NUMBERS
	30.3	31.0	29.6	41.2	26.4	33.7	34.0	27.2	37.8	6.0	34.0	26.0	26.1	40.8		MEAN AGE
GRANDIOSI-TY	213	94	4	4	13	23	3	18	4			17	28	4	1	NUMBERS
	35.7	36.6	41.2	30.2	41.9	36.0	32.7	31.9	46.0			30.2	34.1	40.7	20.0	MEAN AGE

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SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 7 (CONT'D.)

UNDUPLICATED ADMISSIONS TO STATE MENTAL HEALTH FACILITIES
1/1/82 TO 12/31/82 ETHNIC GROUP BY PROBLEMS ON ADMISSION
INCLUDING MEAN AGE ON ADMISSION

SEX = TOTAL

ETHNIC GROUP OF CLIENT BY PROBLEMS AT ADMISSION

	ETHNIC TOTALS	CAUCA-SIAN	HAWAI-IAN	CHINESE	FILI-PINO	JAPAN-ESE	PUERTO RICAN	PART HAWAN.	PORTU-GUESE	AMERICN INDIAN	S. EAST ASIAN	MIXED	OTHER	UNKNOWN	MISSING	
SLOWED UP NO EMOTION	377	108	7	10	38	55	8	51	14	1	1	40	36	3	1	NUMBERS
	30.9	30.6	38.9	32.3	30.0	33.2	35.2	29.5	36.8	14.0	32.0	26.8	29.8	28.7	24.0	MEAN AGE
INAPPROPRI-ATENESS	514	190	7	8	46	69	7	74	18		1	30	58	5	1	NUMBERS
	32.4	32.0	49.1	32.9	31.4	38.1	30.1	29.4	33.9		35.0	27.1	32.4	33.2	24.0	MEAN AGE
ROUTINE IMPAIRED	759	296	8	19	69	106	9	88	24	1	3	66	62	8		NUMBERS
	33.2	32.7	55.1	37.4	32.1	37.1	38.6	31.4	39.1	37.0	29.0	28.5	30.9	28.4		MEAN AGE
MISSING	223	70	3	11	19	21	2	45	4		1	11	16	20		NUMBERS
	30.4	34.8	43.3	32.7	33.4	32.1	55.5	27.2	19.0		63.0	21.5	32.2	26.2		MEAN AGE

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SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 7A

UNDUPLICATED ADMISSIONS TO STATE MENTAL HEALTH FACILITIES
1/1/82 TO 12/31/82. ETHNIC GROUP BY PROBLEMS ON ADMISSION
INCLUDING MEAN AGE ON ADMISSION

SEX = MALE

ETHNIC GROUP OF CLIENT BY PROBLEMS AT ADMISSION

	ETHNIC TOTALS	CAUCA-SIAN	HAWAI-IAN	CHINESE	FILI-PINO	JAPAN-ESE	PUERTO RICAN	PART HAWAN.	PORTU-GUESE	AMERICN INDIAN	S. EAST ASIAN	MIXED	OTHER	UNKNOWN	MISSING	
TOTAL	2400	761	25	50	234	247	37	410	77	3	3	267	235	48	3	NUMBERS
	27.8	29.6	39.0	32.0	28.9	32.6	30.9	24.3	32.8	21.0	27.3	20.5	26.6	24.8	19.0	MEAN AGE
SLEEP PROBLEMS*	495	170	4	13	47	60	7	78	21			38	51	6		NUMBERS
	32.9	33.1	24.0	39.2	34.0	37.4	37.4	30.6	38.4			27.4	29.9	32.2		MEAN AGE
EATING PROBLEMS	213	80	2	3	26	20	3	32	6			20	18	3		NUMBERS
	31.2	32.2	25.0	52.3	30.9	37.3	36.7	30.5	40.7			24.0	23.5	29.7		MEAN AGE
ENURESIS, SOILING	42	15		1	3	4	2	7				3	6	1		NUMBERS
	15.1	19.4		6.0	8.0	35.5	21.5	7.0				6.7	8.5	8.0		MEAN AGE
SEIZURES, CONVULSION	45	18			3	3		9	3			7	2			NUMBERS
	28.8	29.9			23.7	40.3		31.4	40.3			14.9	28.5			MEAN AGE
SPEECH PROBLEMS	88	25		3	11	11	3	11	4	1		12	6	1		NUMBERS
	20.6	26.0		57.7	29.3	29.7	27.0	23.6	50.5	14.0		9.8	30.0	17.0		MEAN AGE
OTHER PHY-SICAL PROB	250	86	1	4	24	33	6	31	16	1		26	18	4		NUMBERS
	33.5	33.9	33.0	44.0	34.2	43.3	28.7	29.7	39.5	14.0		22.6	29.2	38.5		MEAN AGE
INADEQUATE INTELLECT	100	21		1	15	6	2	25	7			15	8			NUMBERS
	19.8	19.7		15.0	20.3	28.2	29.5	19.8	29.0			12.8	16.4			MEAN AGE
SOCIAL PRB WITH CHILD	343	103		4	30	23	3	71	8	1		56	36	8		NUMBERS
	17.2	18.9		40.0	23.0	22.3	30.0	13.5	15.9	14.0		12.5	14.9	21.4		MEAN AGE
SOCIAL PRB WITH* MATE	748	262	11	11	76	61	8	125	26		1	80	70	9	2	NUMBERS
	25.6	27.0	34.6	33.7	28.3	30.1	27.2	22.2	31.8		17.0	18.1	23.7	22.3	18.5	MEAN AGE
SOCIAL PRB OTHR FAMLY	396	104	3	9	37	48	4	81	15	1	1	56	33	5	1	NUMBERS
	24.1	25.2	39.3	19.6	23.6	30.5	33.2	22.9	35.2	17.0	17.0	17.5	21.9	17.4	13.0	MEAN AGE
SOCIAL PRB OTHR PEOPL	877	288	6	12	74	105	14	137	33	1		91	95	20	1	NUMBERS
	28.7	31.3	32.7	33.7	28.1	34.4	36.5	22.8	35.6	17.0		20.0	27.5	26.8	20.0	MEAN AGE

*PROB OR PRB=PROBLEMS; WITH MATE=WITH SPOUSE, MATE.
FOR CHILDREN: INADEQUATE INTELLECT=DELAY, SOCIAL PROBLEMS WITH CHILD=PEERS,
SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 7A (CONT'D.)

UNDUPLICATED ADMISSIONS TO STATE MENTAL HEALTH FACILITIES
1/1/82 TO 12/31/82. ETHNIC GROUP BY PROBLEMS ON ADMISSION
INCLUDING MEAN AGE ON ADMISSION

SEX = MALE

ETHNIC GROUP OF CLIENT BY PROBLEMS AT ADMISSION

	ETHNIC TOTALS	CAUCA-SIAN	HAWAI-IAN	CHINESE	FILI-PINO	JAPAN-ESE	PUERTO RICAN	PART HAWAN.	PORTU-GUESE	AMERICN INDIAN	S. EAST ASIAN	MIXED	OTHER	UNKNOWN		
SUSPICION PERSECUTN	363 31.6	125 31.7	3 33.3	7 32.1	38 30.1	49 35.6	6 33.7	51 30.0	12 38.9			36 27.3	33 31.9	2 27.0	1 20.0	NUMBERS MEAN AGE
DELUSIONS	261 32.6	84 33.8	3 26.0	7 35.4	24 32.4	38 33.3	5 32.2	33 30.4	11 36.6			25 26.8	25 33.5	3 42.7	1 20.0	NUMBERS MEAN AGE
HALLUCI-NATIONS	291 31.4	86 32.6	6 35.8	7 26.7	37 31.8	39 33.2	7 38.0	39 28.4	8 37.1		1 32.0	25 25.3	34 31.2	2 33.0		NUMBERS MEAN AGE
ANGER, NEGATIVISM	757 26.8	226 27.0	8 36.6	7 30.9	65 28.7	70 35.6	13 31.0	141 23.6	23 34.4	2 24.5	1 33.0	110 21.6	76 26.0	14 24.1	1 20.0	NUMBERS MEAN AGE
ASSAULTIVE ACTS	459 27.5	108 28.4	7 33.9	6 36.8	40 29.9	29 37.8	16 28.5	99 25.7	13 30.8	1 32.0	1 17.0	72 21.5	61 27.7	6 18.2		NUMBERS MEAN AGE
ALCOHOL ABUSE	477 32.1	192 34.0	3 37.7	4 45.2	31 34.9	25 34.0	12 31.8	82 28.4	11 36.5	1 32.0		55 28.6	53 30.2	8 30.2		NUMBERS MEAN AGE
SEXUAL PROBLEMS	136 30.3	51 33.1	2 37.0	1 54.0	9 36.1	7 29.6	1 27.0	23 21.7	6 38.8			16 28.1	16 28.2	4 28.5		NUMBERS MEAN AGE
NARCOTICS, OTHR DRUGS	356 26.0	111 27.9	2 25.5	4 35.0	22 22.8	25 27.5	8 23.7	81 24.4	9 25.6	1 32.0		56 25.2	32 26.1	5 24.2		NUMBERS MEAN AGE
ANTI-SOCIAL	526 25.9	130 28.0	3 36.0	7 30.3	34 23.8	36 30.9	16 26.4	123 23.8	12 33.4	1 32.0		85 22.1	66 25.6	9 27.6	2 22.0	NUMBERS MEAN AGE
AGITATION, HYPERACTIV	349 27.3	119 28.1	3 42.7	2 56.0	29 29.8	38 38.9	9 33.1	55 21.5	12 38.2			35 19.4	36 24.7	10 31.6	1 20.0	NUMBERS MEAN AGE
DISORIENTD MEMORY PRB	156 38.7	54 38.0	2 67.0	4 34.5	15 42.0	17 50.0	4 39.7	26 35.2	11 48.4			9 24.6	11 28.5	3 32.7		NUMBERS MEAN AGE
SPEECH DIS -ORGANIZED	131 33.1	44 32.9	2 47.5	2 29.5	14 36.9	16 41.1	3 40.7	19 26.3	9 45.9			10 16.0	10 30.7	1 35.0	1 24.0	NUMBERS MEAN AGE

*PROB OR PRB=PROBLEMS; WITH MATE=WITH SPOUSE, MATE.
FOR CHILDREN: INADEQUATE INTELLECT=DELAY, SOCIAL PROBLEMS WITH CHILD=PEERS,
SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 7A (CONT'D.)

UNDUPLICATED ADMISSIONS TO STATE MENTAL HEALTH FACILITIES
1/1/82 TO 12/31/82. ETHNIC GROUP BY PROBLEMS ON ADMISSION
INCLUDING MEAN AGE ON ADMISSION

SEX = MALE

ETHNIC GROUP OF CLIENT BY PROBLEMS AT ADMISSION

	ETHNIC TOTALS	CAUCA-SIAN	HAWAI-IAN	CHINESE	FILI-PINO	JAPAN-ESE	PUERTO RICAN	PART HAWAN.	PORTU-GUESE	AMERICN INDIAN	S. EAST ASIAN	MIXED	OTHER	UNKNOWN	MISSING	
JOB IMPAIRMENT	778 27.5	278 29.4	9 36.3	15 35.7	67 27.7	84 29.5	12 29.5	122 23.8	28 30.5	2 15.5	1 33.0	75 20.7	72 27.0	12 28.7	1 24.0	NUMBERS MEAN AGE
SCHOOL IMPAIRMENT	425 13.6	103 13.2	1 16.0	8 20.2	39 14.6	32 17.4	5 18.2	87 12.8	14 15.7	1 17.0		79 11.8	44 12.7	12 13.9		NUMBERS MEAN AGE
HOUSEKEEP IMPAIRMENT	186 26.5	68 26.2		4 34.5	16 31.0	23 37.2	1 28.0	34 19.3	7 45.6		2 25.0	15 13.3	14 25.5	1 39.0	1 13.0	NUMBERS MEAN AGE
SUICIDAL THOUGHTS	369 30.3	149 31.9	3 36.0	6 38.7	32 29.0	48 32.8	5 27.8	44 25.0	14 40.6			35 25.0	28 27.6	7 28.7		NUMBERS MEAN AGE
SUICIDE GE -STURE ACT	161 30.0	70 30.7	2 39.0	3 51.0	9 26.9	16 29.9	3 35.0	18 28.9	6 36.8			20 23.0	12 30.2	2 29.5		NUMBERS MEAN AGE
ANXIETY PHOBIAS	482 29.9	195 30.9	2 35.0	11 35.9	47 30.1	55 34.1	5 34.6	60 26.5	17 36.1	1 17.0		38 22.2	45 27.9	5 22.0	1 20.0	NUMBERS MEAN AGE
OBSESSIONS COMPULSION	107 31.8	46 35.3	3 23.7		8 22.9	7 35.0		14 32.0	5 45.2	1 14.0		15 28.5	6 20.8	2 18.0		NUMBERS MEAN AGE
DEPRESSION INFERIORTY	850 30.7	330 31.8	5 34.8	19 38.4	81 31.0	93 33.2	13 32.7	115 28.6	32 38.1	2 15.5		82 22.9	64 28.9	12 28.3	2 22.0	NUMBERS MEAN AGE
HYPOCHON-DRIAS	119 33.0	55 34.5	1 40.0	3 48.0	9 26.4	13 37.5	3 30.7	10 27.9	6 38.7			9 25.8	7 24.3	3 37.0		NUMBERS MEAN AGE
SOCIAL ISOLATION	467 30.1	163 30.7	5 35.4	13 36.4	52 29.8	66 36.0	7 30.7	58 26.7	17 35.5	1 14.0	1 17.0	40 20.8	38 29.5	5 24.6	1 24.0	NUMBERS MEAN AGE
DEPENDENCY CLINGING	213 28.5	80 30.3	2 23.0	4 24.7	14 22.6	22 32.7	6 35.2	25 23.9	8 34.9		1 33.0	27 25.8	24 26.7			NUMBERS MEAN AGE
GRANDIOSI-TY	141 34.1	58 35.5	3 30.7	2 29.5	5 34.4	16 32.9	3 32.7	13 32.6	3 46.7			15 29.1	19 34.4	3 43.0	1 20.0	NUMBERS MEAN AGE

*PROB OR PRB=PROBLEMS; WITH MATE=WITH SPOUSE, MATE.
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SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 7A (CONT'D.)

UNDUPLICATED ADMISSIONS TO STATE MENTAL HEALTH FACILITIES
1/1/82 TO 12/31/82. ETHNIC GROUP BY PROBLEMS ON ADMISSION
INCLUDING MEAN AGE ON ADMISSION

SEX = MALE

ETHNIC GROUP OF CLIENT BY PROBLEMS AT ADMISSION

	ETHNIC TOTALS	CAUCA-SIAN	HAWAI-IAN	CHINESE	FILI-PINO	JAPAN-ESE	PUERTO RICAN	PART HAWAN.	PORTU-GUESE	AMERICN INDIAN	S. EAST ASIAN	MIXED	OTHER	UNKNOWN	MISSING	
SLOWED UP NO EMOTION	234 30.8	66 32.1	4 49.5	4 24.0	23 28.6	35 33.3	5 36.0	31 27.7	9 41.7	1 14.0		25 25.2	24 29.4	2 27.5	1 24.0	NUMBERS MEAN AGE
INAPPROPRI -ATENESS	285 29.9	97 29.2	4 43.7	1 36.0	23 28.3	37 37.1	5 30.2	44 27.4	13 34.1			21 21.0	37 30.5	2 27.5	1 24.0	NUMBERS MEAN AGE
ROUTINE IMPAIRED	401 32.2	140 32.0	3 54.0	5 41.4	41 32.1	60 36.9	5 29.4	48 29.8	17 39.4		1 33.0	42 26.2	36 29.4	3 26.3		NUMBERS MEAN AGE
MISSING	149 29.1	47 29.1	2 57.0	6 31.0	15 33.7	14 33.7	2 55.5	33 25.8	3 19.3			7 14.7	8 32.9	12 25.2		NUMBERS MEAN AGE

*PROB OR PRB=PROBLEMS; WITH MATE=WITH SPOUSE, MATE.
FOR CHILDREN: INADEQUATE INTELLECT=DELAY, SOCIAL PROBLEMS WITH CHILD=PEERS,
SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 7B

UNDUPLICATED ADMISSIONS TO STATE MENTAL HEALTH FACILITIES
1/1/82 TO 12/31/82. ETHNIC GROUP BY PROBLEMS ON ADMISSION
INCLUDING MEAN AGE ON ADMISSION

SEX = FEMALE

ETHNIC GROUP OF CLIENT BY PROBLEMS AT ADMISSION

	ETHNIC TOTALS	CAUCA-SIAN	HAWAI-IAN	CHINESE	FILI-PINO	JAPAN-ESE	PUERTO RICAN	PART HAWAN.	PORTU-GUESE	AMERICN INDIAN	S. EAST ASIAN	MIXED	OTHER	UNKNOWN	MISSING	
TOTAL	1703	693	16	65	142	183	27	231	60	5	6	153	143	37	2	NUMBERS
	31.0	32.0	40.5	38.4	29.5	35.8	36.0	28.2	34.3	27.6	31.8	24.4	27.6	28.5	42.0	MEAN AGE
SLEEP PROBLEMS*	553	232	1	28	44	62	6	66	18	1	3	40	40	11	1	NUMBERS
	34.4	34.6	27.0	41.5	33.3	38.9	38.2	31.8	39.2	31.0	29.7	31.6	29.2	29.8	41.0	MEAN AGE
EATING PROBLEMS	307	124	1	12	25	33	4	47	8	2	1	25	21	4		NUMBERS
	33.2	32.3	27.0	39.6	32.2	36.1	45.0	33.9	37.7	18.5	22.0	30.1	33.0	28.7		MEAN AGE
ENURESIS, SOILING	16	5			1	1	1	2					2			NUMBERS
	30.1	20.6			37.0	69.0	79.0	6.0					22.5			MEAN AGE
SEIZURES, CONVULSION	23	10			1	2	1	3				1	2	3		NUMBERS
	27.8	33.0			15.0	29.5	16.0	17.7				33.0	29.5	25.0		MEAN AGE
SPEECH PROBLEMS	43	15	1	1	4	7	1	3	1		2	2	5	1		NUMBERS
	37.0	39.7	59.0	70.0	17.2	42.0	79.0	22.7	30.0		27.0	24.0	38.2	31.0		MEAN AGE
OTHER PHY-SICAL PROB	302	133	4	19	16	33	5	32	8	2	1	25	19	5		NUMBERS
	36.0	33.8	53.7	39.6	36.6	44.2	62.6	33.6	43.1	39.0	22.0	31.3	31.1	33.8		MEAN AGE
INADEQUATE INTELLECT	50	9	1		4	4	2	11	3		1	5	4	6		NUMBERS
	26.4	27.8	59.0		22.2	30.0	28.0	25.2	17.7		22.0	17.2	37.7	25.8		MEAN AGE
SOCIAL PRB WITH CHILD	375	118	3	16	28	31	8	67	19	1	1	43	31	8	1	NUMBERS
	28.6	31.0	26.7	42.1	28.7	33.7	24.4	25.0	33.0	23.0	22.0	23.5	22.5	23.0	41.0	MEAN AGE
SOCIAL PRB WITH* MATE	802	331	6	19	71	71	10	113	25	1	3	79	61	12		NUMBERS
	27.8	29.9	41.3	32.6	27.3	31.6	24.3	25.1	26.8	31.0	20.3	22.5	24.0	24.0		MEAN AGE
SOCIAL PRB OTHR FAMLY	321	102	6	8	25	40	4	40	18		2	43	28	4	1	NUMBERS
	27.7	30.4	24.8	32.6	26.8	32.4	25.0	22.5	32.1		27.0	22.7	23.9	22.7	43.0	MEAN AGE
SOCIAL PRB OTHR PEOPL	535	213	3	21	24	59	9	76	20	2	2	40	55	11		NUMBERS
	31.0	32.1	41.3	30.8	35.1	37.1	26.8	26.0	35.7	39.0	28.5	25.7	27.9	32.2		MEAN AGE

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SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 78 (CONT'D.)

UNDUPLICATED ADMISSIONS TO STATE MENTAL HEALTH FACILITIES
1/1/82 TO 12/31/82. ETHNIC GROUP BY PROBLEMS ON ADMISSION
INCLUDING MEAN AGE ON ADMISSION

SEX = FEMALE

ETHNIC GROUP OF CLIENT BY PROBLEMS AT ADMISSION

	ETHNIC TOTALS	CAUCA-SIAN	HAWAI-IAN	CHINESE	FILI-PINO	JAPAN-ESE	PUERTO RICAN	PART HAWAN.	PORTU-GUESE	AMERICN INDIAN	S. EAST ASIAN	MIXED	OTHER	UNKNOWN	MISSING	
SUSPICION PERSECUTIN	197 37.0	82 36.0	1 73.0	5 25.8	23 37.4	30 45.8	1 69.0	30 34.2	7 40.3		1 35.0	9 37.4	26 31.6	2 25.0		NUMBERS MEAN AGE
DELUSIONS	172 36.0	51 35.7	2 70.5	4 35.2	20 36.9	39 41.7	2 34.5	20 37.4	6 44.8		1 35.0	8 41.9	18 31.8	1 34.0		NUMBERS MEAN AGE
HALLUCI-NATIONS	161 36.4	38 37.7	2 63.5	3 37.3	21 33.8	33 42.5	3 27.7	24 32.6	5 36.0		1 32.0	12 31.1	16 32.2	3 36.0		NUMBERS MEAN AGE
ANGER, NEGATIVISM	479 29.4	193 30.8	4 67.2	8 25.9	34 31.2	37 35.3	11 28.7	67 25.0	12 31.2	1 37.0	2 27.0	56 24.1	48 27.1	6 33.0		NUMBERS MEAN AGE
ASSAULTIVE ACTS	142 29.8	54 29.9		2 33.5	12 40.1	13 35.7	3 25.7	15 24.7	3 26.0		1 32.0	16 22.7	20 30.3	3 28.3		NUMBERS MEAN AGE
ALCOHOL ABUSE	153 33.0	85 35.1	1 27.0	2 35.5	6 30.0	5 22.2	3 33.7	19 32.6	3 33.3			14 27.5	10 30.9	1 28.0		NUMBERS MEAN AGE
SEXUAL PROBLEMS	97 27.5	56 29.7	1 19.0	1 28.0	3 18.0	6 30.2	1 40.0	9 24.7	2 16.0			8 20.5	9 26.1	1 28.0		NUMBERS MEAN AGE
NARCOTICS, OTHR DRUGS	97 26.0	47 27.8	1 27.0		4 32.5	5 23.8	1 40.0	14 22.2	4 22.5			13 22.7	8 24.7			NUMBERS MEAN AGE
ANTI-SOCIAL	131 27.8	50 29.8	2 46.0	2 50.0	2 44.0	11 35.0	3 25.0	20 22.7	5 19.8		1 12.0	12 23.4	22 25.0	1 22.0		NUMBERS MEAN AGE
AGITATION, HYPERACTIV	211 35.1	97 34.5	1 73.0	6 31.7	15 38.5	22 43.8	1 37.0	26 31.2	3 44.0		1 32.0	19 31.4	19 32.8	1 34.0		NUMBERS MEAN AGE
DISORIENTD MEMORY PRB	101 43.8	45 40.9	4 62.5	2 19.0	6 46.0	13 51.8	2 70.0	8 43.6	5 52.0			8 34.6	7 41.1	1 31.0		NUMBERS MEAN AGE
SPEECH DIS -ORGANIZED	84 36.5	30 36.1	2 50.5	4 29.7	11 37.2	9 44.0	1 79.0	13 33.5	1 44.0			6 29.8	6 31.5	1 31.0		NUMBERS MEAN AGE

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SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 7B (CONT'D.)

UNDUPLICATED ADMISSIONS TO STATE MENTAL HEALTH FACILITIES
1/1/82 TO 12/31/82. ETHNIC GROUP BY PROBLEMS ON ADMISSION
INCLUDING MEAN AGE ON ADMISSION

SEX = FEMALE

ETHNIC GROUP OF CLIENT BY PROBLEMS AT ADMISSION

	ETHNIC TOTALS	CAUCA-SIAN	HAWAI-IAN	CHINESE	FILI-PINO	JAPAN-ESE	PUERTO RICAN	PART HAWAN.	PORTU-GUESE	AMERICN INDIAN	S. EAST ASIAN	MIXED	OTHER	UNKNOWN	MISSING	
JOB IMPAIRMENT	416	168	3	15	29	58	5	51	10	2	4	37	31	3		NUMBERS
	29.3	30.8	23.3	33.5	28.3	33.0	18.8	25.4	28.7	34.0	25.2	23.1	28.5	32.7		MEAN AGE
SCHOOL IMPAIRMENT	183	44	2	5	12	18	2	38	7	1	1	25	25	3		NUMBERS
	15.5	17.6	16.0	23.4	15.7	17.1	18.5	11.8	13.4	6.0	12.0	13.9	17.2	16.3		MEAN AGE
HOUSEKEEP IMPAIRMENT	274	107		11	18	35	5	35	11		1	22	23	6		NUMBERS
	32.3	32.8		38.2	35.3	36.3	35.2	25.4	38.7		22.0	25.9	33.2	28.8		MEAN AGE
SUICIDAL THOUGHTS	290	116	3	9	20	25	4	36	14		1	28	23	8	1	NUMBERS
	30.6	32.0	24.3	39.7	27.6	33.4	28.2	27.4	37.1		22.0	27.3	25.7	36.5	41.0	MEAN AGE
SUICIDE OR -STURE ACT	134	58	2	1	12	11	3	13	6			13	14	1		NUMBERS
	29.0	29.7	27.0	25.0	25.6	36.9	29.7	29.3	28.5			25.8	24.9	45.0		MEAN AGE
ANXIETY PHOBIAS	619	296	3	17	40	65	7	62	25	1	3	51	37	6	2	NUMBERS
	32.2	33.0	30.3	38.6	30.8	34.3	40.0	28.4	39.5	41.0	28.0	26.3	28.8	33.3	42.0	MEAN AGE
OBSESSIONS COMPULSION	103	42	1	6	8	18	2	3	5			10	7	1		NUMBERS
	35.7	34.9	27.0	36.3	37.2	32.7	29.0	39.0	55.2			33.9	31.3	74.0		MEAN AGE
DEPRESSION INFERIORTY	959	417	7	41	65	108	13	106	40	4	4	81	58	13	2	NUMBERS
	31.6	32.3	32.9	35.8	29.9	33.6	34.5	28.8	34.4	25.2	29.0	26.4	30.0	31.2	42.0	MEAN AGE
HYPOCHON-DRIAS	145	63	1	11	10	20	4	12	4			5	12	3		NUMBERS
	37.4	35.2	73.0	44.5	40.5	40.8	46.5	36.5	43.5			28.0	33.4	26.0		MEAN AGE
SOCIAL ISOLATION	327	130	4	12	23	44	1	35	14		2	29	31	2		NUMBERS
	32.4	32.8	59.7	32.4	31.6	37.6	33.0	28.1	37.4		27.0	26.8	26.9	52.5		MEAN AGE
DEPENDENCY CLINGING	222	103	3	4	11	26	3	17	11	1	1	24	13	5		NUMBERS
	32.0	31.6	34.0	57.7	31.3	34.5	31.7	32.1	40.0	6.0	35.0	26.2	24.9	40.8		MEAN AGE
GRANDIOSI-TY	72	36	1	2	8	7		5	1			2	9	1		NUMBERS
	38.9	38.4	73.0	31.0	46.6	43.0		30.2	44.0			39.0	33.7	34.0		MEAN AGE

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SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 7B (CONT'D.)

UNDUPLICATED ADMISSIONS TO STATE MENTAL HEALTH FACILITIES
1/1/82 TO 12/31/82. ETHNIC GROUP BY PROBLEMS ON ADMISSION
INCLUDING MEAN AGE ON ADMISSION

SEX = FEMALE

ETHNIC GROUP OF CLIENT BY PROBLEMS AT ADMISSION

	ETHNIC TOTALS	CAUCA-SIAN	HAWAI-IAN	CHINESE	FILI-PINO	JAPAN-ESE	PUERTO RICAN	PART HAWAN.	PORTU-GUESE	AMERICN INDIAN	S. EAST ASIAN	MIXED	OTHER	UNKNOWN	MISSING	
SLOWED UP NO EMOTION	143	42	3	6	15	20	3	20	5		1	15	12	1		NUMBERS
	30.9	28.4	24.7	37.8	32.2	33.0	34.0	32.3	33.6		32.0	29.6	30.5	31.0		MEAN AGE
INAPPROPRI -ATENESS	229	93	3	7	23	32	2	30	5		1	9	21	3		NUMBERS
	35.6	34.8	56.3	32.4	34.5	39.2	30.0	32.3	33.4		35.0	41.6	35.7	37.0		MEAN AGE
ROUTINE IMPAIRED	358	156	5	14	28	46	4	40	7	1	2	24	26	5		NUMBERS
	34.3	33.3	55.8	35.9	32.2	37.3	50.0	33.2	38.6	37.0	27.0	32.5	33.1	29.6		MEAN AGE
MISSING	74	23	1	5	4	7		12	1		1	4	8	8		NUMBERS
	33.0	37.3	16.0	34.8	32.2	28.9		31.2	18.0		63.0	33.2	31.6	27.6		MEAN AGE

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SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 8

TERMINATIONS FROM STATE MENTAL HEALTH FACILITIES. 1/1/82 TO 12/31/82
BY AGE AND PROBLEMS ON TERMINATION

AGE AT TERMINATION BY PROBLEMS AT ADMISSION

	TOTAL	UNDER 5	05-09	10-14	15-17	18-19	20-24	25-34	35-44	45-54	55-64	OVER 64
TOTAL	5155	21	190	467	372	193	697	1613	793	397	258	154
SLEEP PROBLEMS*	1211	2	16	14	28	34	173	474	225	123	77	45
EATING PROBLEMS	553	1	10	6	8	18	83	235	96	43	32	21
ENURESIS, SOILING	67	2	20	18	4	2	1	3	2	2	2	11
SEIZURES, CONVULSION	79	1	2	4	2	8	10	30	10	6	1	5
SPEECH PROBLEMS	147		24	11	10	8	15	30	22	8	7	12
OTHER PHYSICAL PROB	640	4	24	34	30	15	64	206	103	66	51	43
INADEQUATE INTELLECT	196	3	22	34	22	14	31	31	17	10	5	7
SOCIAL PRB WITH CHILD	637	3	71	141	62	11	42	129	102	46	22	8
SOCIAL PRB WITH* MATE	1572	4	67	137	122	47	197	527	276	110	59	26
SOCIAL PRB OTHR FAMLY	1132	4	52	171	154	70	162	292	123	48	43	13
SOCIAL PRB OTHR PEOPL	1893	1	69	173	142	76	271	610	286	132	78	54
JOB IMPAIRMENT	1344	1	22	58	55	50	255	522	237	94	39	11
SCHOOL IMPAIRMENT	891	2	119	320	243	67	49	68	14	8	1	
HOUSEKEEP IMPAIRMENT	514	2	16	53	29	17	51	149	93	47	36	21
SUICIDAL THOUGHTS	794	1	2	16	27	35	158	301	142	68	26	18
SUICIDE GE-STURE ACT	365	1	2	4	21	16	70	155	63	22	8	7
ANXIETY PHOBIAS	1146	1	28	46	34	40	153	458	220	81	58	27
OBSESSIONS COMPULSION	203		3	4	6	8	30	64	47	21	15	5
DEPRESSION INFERIORITY	1993	1	23	52	111	75	297	760	337	166	84	47
HYPOCHONDRIAS	290		5	8	8	11	40	101	52	31	22	12

*PROB OR PRB=PROBLEMS; WITH MATE=WITH SPOUSE, MATE.
FOR CHILDREN: INADEQUATE INTELLECT=DELAY, SOCIAL PROBLEMS WITH CHILD=PEERS,
SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 8 (CONT'D.)

TERMINATIONS FROM STATE MENTAL HEALTH FACILITIES, 1/1/82 TO 12/31/82
BY AGE AND PROBLEMS ON TERMINATION

AGE AT TERMINATION BY PROBLEMS AT ADMISSION

	TOTAL	UNDER 5	05-09	10-14	15-17	18-19	20-24	25-34	35-44	45-54	55-64	OVER 64
SOCIAL ISOLATION	907		19	54	44	41	142	307	156	70	49	25
DEPENDENCY CLINGING	464	1	21	21	16	19	72	171	75	37	21	10
GRANDIOSITY	307			5	2	12	42	110	67	38	16	15
SUSPICION PERSECUTIN	735	1		4	16	30	119	278	145	74	45	23
HALLUCINATIONS	660	1	1	3	15	28	123	257	119	63	31	19
ANGER, NEGATIVISM	1435	3	53	151	128	65	189	426	227	98	63	32
ASSAULTIVE ACTS	693	1	20	45	55	42	113	224	118	40	21	14
ALCOHOL ABUSE	602	1		3	26	23	109	247	122	76	41	14
SEXUAL PROBLEMS	265	1	2	6	20	12	46	105	49	18	5	1
NARCOTICS, OTHR DRUGS	499			11	63	27	115	235	39	5	3	1
ANTI-SOCIAL	792		11	60	131	47	143	234	99	38	15	14
AGITATION, HYPERACTIV	713	3	51	45	20	27	84	221	125	66	41	30
DISORIENTD MEMORY PRB	320		1	1	4	12	44	109	48	31	26	44
SPEECH DIS-ORGANIZED	274		7	1	8	7	41	94	47	36	17	16
SLOWED UP NO EMOTION	418	1	2	12	12	23	84	154	72	31	19	8
INAPPROPRI-ATENESS	740		7	11	19	31	139	280	131	62	40	20
ROUTINE IMPAIRED	923	2	5	17	16	36	153	363	171	87	45	28
MISSING	432	3	14	33	21	11	48	98	63	54	53	34

*PROB OR PR=PROBLEMS; WITH MATE=WITH SPOUSE, MATE.
FOR CHILDREN: INADEQUATE INTELLECT=DELAY, SOCIAL PROBLEMS WITH CHILD=PEERS,
SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 9

TERMINATIONS FROM STATE MENTAL HEALTH FACILITIES. 1/1/82 TO 12/31/82
BY COMMUNITY MENTAL HEALTH CENTER OR SERVICE AND DISPOSTION

COMPREHENSIVE MH CENTER OR SERVICE BY REFERRAL OF DISCONTINUANCES

	TOTAL	CENTRAL OAHU	WIND-WARD	LEEWARD	DIAMOND HEAD	KALIHI-PALAMA	MAUI	EAST HAWAII	WEST HAWAII	KAUAI	HSH & CENTRAL SRVS	OTHER SRVS
TOTAL	5155	528	321	585	754	707	371	248	270	259	993	119
PUBLIC PSYCH HOSP	172	21	31	9	19	28	26	8	6	10	14	
OTHER PSYCH HOSP	131	12	10	18	41	30			4	3	6	7
COMM M.H. CENTER	419	43	28	39	58	52	1	3	10	14	169	2
NURSING HOME	7	1			1			1		2	2	
OTHER NON-PSY INPATNT	57	4	2	3	10	8			1	4	23	4
OUTPTNT M.H. CLINICS	18	1	1	3	3	3			1	4	2	
PRIVATE PRACTCE MH PROF	364	35	19	17	77	60	6	15	47	33	27	28
SOCIAL COMMNTY AGENCES	608	5	6	10	12	46	9	29		13	473	5
NON-PSY PHYSICN	69	4	3	7	6	9	1	9	6	8	12	3
NOT REFER IN NEED	583	123	32	141	79	91	23	11	29	27	25	2
NOT REFER NOT NED	1075	131	106	121	129	148	64	35	81	68	192	
UNKNOWN	1229	101	61	175	244	147	233	120	78	64	6	
OTHER	356	44	23	27	67	73	7	15	12	15	64	9

NOTE: THE SUMS OF THE COLUMNS WILL NOT NECESSARILY BE EQUAL TO THE TOTAL SINCE A PATIENT MAY HAVE MORE THAN ONE REFERRAL ON TERMINATION.

TABLE 10

UNDUPLICATED COUNT OF PATIENTS SERVED. STATE MENTAL HEALTH FACILITIES
BY PROBLEMS AND AGE. 1/1/82 TO 12/31/82

AGE BY PROBLEMS AT ADMISSION

	TOTAL	UNDER 5	05-09	10-14	15-17	18-19	20-24	25-34	35-44	45-54	55-64	OVER 64
TOTAL	10312	33	401	825	654	317	1143	2942	1740	948	724	545
SLEEP PROBLEMS*	2344	5	26	26	60	55	263	837	485	281	192	114
EATING PROBLEMS	1124	3	25	11	22	29	137	432	227	111	78	49
ENURESIS, SOILING	134	4	42	35	5	3	1	8	6	5	4	21
SEIZURES, CONVULSION	125	3	8	4	5	5	16	37	23	9	6	9
SPEECH PROBLEMS	291	4	48	31	18	15	23	54	28	23	22	25
OTHER PHYSICAL PROB	1339	5	50	44	46	25	128	408	243	146	125	119
INADEQUATE INTELLECT	458	6	45	79	49	21	57	88	51	28	16	18
SOCIAL PRB WITH CHILD	1433	6	166	289	142	30	65	274	260	118	53	30
SOCIAL PRB WITH* MATE	3054	8	144	260	237	66	337	1012	605	229	127	59
SOCIAL PRB OTHR FAMLY	2203	7	112	311	257	140	266	538	250	118	74	40
SOCIAL PRB OTHR PEOPL	3352	5	136	317	247	129	430	1056	552	223	162	95
JOB IMPAIRMENT	2575	2	61	138	115	62	368	1001	506	188	106	28
SCHOOL IMPAIRMENT	1691	6	262	560	447	142	136	126	27	10	3	2
HOUSEKEEP IMPAIRMENT	967	3	30	107	55	22	77	250	176	111	80	56
SUICIDAL THOUGHTS	1311	1	7	22	64	44	200	490	280	105	61	37
SUICIDE GESTURE ACT	548	1	2	9	45	24	85	209	101	38	19	11
ANXIETY PHOBIAS	2361	1	56	84	67	57	273	879	507	226	150	61
OBSESSIONS COMPULSION	429		5	12	12	14	53	134	96	46	39	18
DEPRESSION INFERIORITY	4102		48	162	216	125	496	1495	806	394	221	139
HYPOCHONDRIAS	604		13	14	12	15	57	186	120	85	66	36

*PROB OR PRB=PROBLEMS; WITH MATE=WITH SPOUSE, MATE.
FOR CHILDREN: INADEQUATE INTELLECT=DELAY, SOCIAL PROBLEMS WITH CHILD=PEERS,
SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
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JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 10 (CONT'D.)

UNDUPLICATED COUNT OF PATIENTS SERVED. STATE MENTAL HEALTH FACILITIES
BY PROBLEMS AND AGE. 1/1/82 TO 12/31/82

AGE BY PROBLEMS AT ADMISSION

	TOTAL	UNDER 5	05-09	10-14	15-17	18-19	20-24	25-34	35-44	45-54	55-64	OVER 64
SOCIAL ISOLATION	1857	1	41	100	90	63	223	630	328	166	121	94
DEPENDENCY CLINGING	905	3	37	42	27	26	120	319	167	79	53	32
GRANDIOSI-TY	369		1	5	2	7	46	134	83	51	30	10
SUSPICION PERSECUTIN	1181	1	2	8	27	30	145	449	238	127	95	59
DELUSIONS	900	1	1	4	7	18	107	313	212	105	78	54
HALLUCI-NATIONS	974	1	1	6	11	23	142	353	214	100	69	54
ANGER, NEGATIVISM	2669	6	115	287	224	92	352	808	418	177	115	75
ASSAULTIVE ACTS	1266	2	44	83	97	49	234	423	195	68	40	31
ALCOHOL ABUSE	1222	1		3	45	31	243	443	236	131	69	20
SEXUAL PROBLEMS	552	1	5	11	41	17	78	230	111	37	14	7
NARCOTICS, OTHR DRUGS	994			12	100	47	245	455	115	17	2	1
ANTI-SOCIAL	1476		23	109	206	80	323	464	178	57	24	12
AGITATION, HYPERACTIV	1191	5	125	111	31	34	109	333	200	105	83	55
DISORIENTD MEMORY PRB	564		4	6	7	6	50	165	97	55	62	112
SPEECH DIS -ORGANIZED	429	1	14	8	8	6	52	138	86	48	30	38
SLOWED UP NC EMOTION	795	1	8	21	24	27	125	301	134	64	54	36
INAPPROPRI -ATENESS	1105		16	21	24	34	169	398	214	109	78	42
ROUTINE IMPAIRED	1778	3	20	34	35	51	238	640	356	180	120	97
MISSING	1236	4	18	38	28	15	47	170	198	234	254	230

*PROB OR PRB=PROBLEMS; WITH MATE=WITH SPOUSE, MATE.
FOR CHILDREN: INADEQUATE INTELLECT=DELAY, SOCIAL PROBLEMS WITH CHILD=PEERS,
SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

REFUGEE SCREENING PROJECT

NARRATIVE

The Health Care for Refugees Project is administered by the State of Hawaii Department of Health and is federally-funded by the Centers for Disease Control (CDC), to provide for the coordination of health care of refugees to Hawaii. The HCFR Project is responsible for coordination of the initial health assessment/medical evaluation of all refugees entering Hawaii. The Project also monitors the screening, treatment and control of tuberculosis in refugees, in addition to providing for the dissemination of health information and education to recent refugee arrivals. The HCFR Project maintains a refugee health registry to monitor the health status of Hawaii's refugee population and to collect health data for state and federal informational purposes.

Of Hawaii's estimated 6,000 refugee population, about 95% came from Southeast Asia (Vietnam, Laos or Cambodia). In 1982, over 93% of Hawaii's 670 refugee arrivals were medically screened and 94% of those screened had one or more health problems noted at the time of the screening.

The HCFR Project addresses specific health problems prevalent in the high-risk refugee population by providing for the prompt detection, treatment and prevention of these conditions in culturally-sensitive and appropriate manner. The more common refugee health problems include tuberculosis (70% with positive skin tests), parasites (53.6%), obvious dental disease (43%) undernutrition, other less prevalent and primarily personal health problems, and a general lack of adequate knowledge about health and disease and the U.S. health care system. This program's findings generally reflect those found in similar refugee health screening programs elsewhere in the U.S. The initial health care of Hawaii's newly-arriving refugees is coordinated by the Project through a unique public and private cooperative system involving the State Department of Health, voluntary resettlement agencies and local private medical and dental providers.

TABLE 1

DEMOGRAPHIC BREAKDOWN OF REFUGEES[a/] ENTERING HAWAII (Primary Arrivals[b/])

STATE OF HAWAII: October 1, 1981 - September 30, 1982

AGE (years)	Country of Origin								TOTAL	
	VIETNAM		LAOS		CAMBODIAN		OTHER[c/]			
	Sex		Sex		Sex		Sex			
	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	Number	Percent
Under 1 year	7	5	1	7	2	0	0	0	22	3.1
1 - 4	20	19	10	12	2	1	0	2	66	9.4
5 - 9	27	18	15	11	0	1	4	2	78	11.1
10 - 14	34	22	5	7	2	1	1	4	76	10.8
15 - 19	70	22	10	2	1	1	0	0	106	15.1
20 - 34	123	75	18	17	6	6	5	4	254	36.1
35 - 44	13	9	6	4	1	1	2	0	36	5.1
45 - 64	18	19	1	6	2	2	1	2	51	7.3
65 or Older	3	7	2	1	0	0	0	0	14	2.0
TOTAL Number	315	196	68	67	16	13	13	15	703[d/]	---
TOTAL Percent	44.8	27.9	9.7	9.5	2.3	1.85	1.85	2.1	---	100.0

a/- Figures include data on 33 immigrants (Vietnamese)
b/- Primary arrivals refer to U.S. arrival via Hawaii; does not include secondary refugee arrivals from other states.
c/- Afghanistan & Ethiopian
d/- Estimated number of refugee arrivals to Hawaii as of 9/30/82 is 5,677.

WAIMANO
TRAINING SCHOOL
AND
HOSPITAL DIVISION

WAIMANO TRAINING SCHOOL AND HOSPITAL

SUMMARY

The population of Waimano continues to decline over the years, reflecting the emphasis on deinstitutionalization. However, the decline is not as rapid as in past years due to the difficulty in making successful community placements. As the level of functioning of the retarded patients is lowered, the difficulty in management is conversely increased.

Table 1 shows that in the past year of operation, the population decreased by 12 patients, from 397 at the start to 385 at the end. Other data show that patients added during the year declined. New admissions declined from previous years, as did direct discharges. Figures for both Returns from Community Placement (47) and Community Placements (57) show a duplicated count of residents moving in and out of Waimano. Actual revocations of community placements were 12.

Table 2 shows that the trends in the category of classification remain about the same as in previous years, with the predominance of residents in the "Profound" category.

TABLE 1
WAIMANO TRAINING SCHOOL & HOSPITAL
STATISTICAL MOVEMENT OF PATIENTS BY FISCAL YEAR
STATE OF HAWAII: FISCAL YEAR 1981-82

Waimano Population	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82
Institution								
Patients in residence at start	702	638	588	535	482	446	423	397
Patients added during the year	34	31	52	66	84	65	63	53
Admissions during the year	17	10	12	13	13	12	7	6
Returns from community placement	17	21	40	53	71	53	56	47
Patients removed from Hospital during the year	98	81	105	119	120	88	89	65
Direct discharge	5	10	7	4	5	3	2	-
Deaths in hospital	15	13	13	14	6	6	7	8
Community placements	78	58	85	101	109	79	80	57
Patients in residence at end of year	638	588	535	482	446	423	397	385

TABLE 2
RESIDENT POPULATION, WAIMANO, JUNE 30
DISTRIBUTION BY YEAR AND MEASURED INTELLIGENCE
STATE OF HAWAII: FISCAL YEAR 1981-82

	Resident Population on June 30							
	1975	1976	1977	1978	1979	1980	1981	1982
Total	638	588	535	482	446	423	397	385
I. Mild Educable	35	23	21	24	7	9	10	13
II. Moderate Trainable	107	94	85	72	35	30	29	26
III. Severe	226	209	193	174	65	53	53	53
IV. Profound	265	255	230	207	338	328	305	293
Borderline	3	5	5	4	-	2	-	-
Undetermined Intelligence	2	2	1	1	1	1	-	-

ADMINISTRATIVE STAFF

Director of Health ..... CHARLES G. CLARK, B.A.

Deputy Director of Health ..... JOHN F. CHALMERS, M.D.

Deputy Director of Administration ..... LESLIE MATSUBARA, ED. B.

Deputy Director of County/State Hospitals ..... ABELINA MADRID SHAW, M.A., J.D.

Deputy Director, Environmental Health ..... MELVIN K. KOIZUMI, B.S., M.A.

Administrative Assistant ..... PETER A. SYBINSKY, B.A., Ph.D.

Chief, Administrative Services Office ..... CALVIN T. MASAKI, B.S., M.B.A.

Personnel Officer ..... HENRY TAKESHITA, B.A.

Health Education Officer ..... CHRISTINE LING, ED.B., M.P.H.

Health Information Systems Office ..... LEE E. CASTONGUAY, B.A.

Comprehensive Health Planning Officer ..... HENRY THOMPSON, M.A.

Chief, Research and Statistics Office ..... THOMAS A. BURCH, M.D., M.P.H.
State Registrar of Vital Statistics and Assistant Chief ..... GEORGE H. TOKUYAMA, M.P.H., M.B.A.

Chief, Family Health Services Division ..... FRANCIS D. RIGGS, M.D., M.P.H.
Chief, Crippled Children's Branch ..... PHYLLIS WRIGHT, M.D.
Chief, Maternal and Child Health Branch ..... HENRY ICHIHO, M.D., M.P.H.
Chief, School Health Branch ..... VACANT
Chief, Community Services for Developmentally Disabled ..... ETHEL YAMANE, M.S.W.

Chief, Communicable Disease Division ..... MONA BOMGAARS, M.D., M.P.H.
Public Health Veterinarian ..... VACANT
Chief, Epidemiology Branch ..... VACANT
Chief, Hale Mohalu Hospital Branch ..... ERIDA REICHERT, M.D.
Chief, Kalaupapa Settlement Branch (Interim) ..... OLIVER HASSELBLAD, M.D.
Chief, Tuberculosis Branch ..... HERBERT I. COHEN, M.D.

Chief, Dental Health Division ..... MANUEL C. W. KAU, D.D.S., M.P.H.
Chief, Dental Hygiene Branch ..... JOYCE H. HARA, DENTAL HYGIENE CERTIFICATE
Chief, Hospital Dentistry and Community Services Branch ..... MANUEL C. W. KAU, D.D.S., M.P.H.

Chief, Environmental Protection and Health Services Division ..... SHINJI SONEDA, M.S.S.E.
Chief, Pollution Investigation and Enforcement Branch ..... PAUL F. AKI, B.A.
Chief, Food and Drug Branch ..... VACANT
Chief, Noise and Radiation Branch ..... THOMAS M. ANAMIZU
Chief, Wastewater Treatment Works Construction Grants Branch ..... DENNIS TULANG, M.S.C.E.
Chief, Environmental Permits Branch ..... RALPH K. YUKUMOTO, M.S.C.E.
Chief, Sanitation Branch ..... TSUTOMU KUBOTA, B.A.
Chief, Vector Control Branch ..... PATRICK Y. NAKAGAWA, M.S.
Administrator, Litter Control Program ..... CLYDE B. MORITA, M.S., P.E.

Chief, Medical Health Services Division ..... ELISABETH ANDERSON, M.D., M.P.H.
Chief, Chronic Disease Branch ..... KLEONA RIGNEY, M.D., M.P.H.
Chief, Emergency Health Mobilization Branch ..... JOEL K. SIMS, M.D.
Chief, Hospital and Medical Facilities Branch ..... LINDSAY J. KIRKHAM, M.D.
Chief, Laboratories Branch ..... ALBERT I. ODA, B.S.
Chief, Nutrition Branch ..... FLORA THONG, B.S., M.S.
Chief, Public Health Nursing Branch ..... VACANT

Chief, Mental Health Division ..... DENIS MEE-LEE, M.D., M.Sc.
Chief, Central Administrative Services ..... TIMOTHY I. WEE, JR., B.A.
Chief, Children's Mental Health Services Branch ..... CAROL BROWN, M.S., M.D.
Administrator, Hawaii State Hospital ..... HOWARD GUDEMAN, M.A., Ph.D.
Chief, Courts and Corrections Branch ..... JOHN BLAYLOCK, M.A., Ph.D.
Acting Chief, Program Support Services ..... SHIRLEY HAYASHI, B.A., M.S.W.
Chief, Alcohol and Drug Abuse Branch ..... VACANT
Chief, Leeward Oahu Community Mental Health Center ..... FRANK BORUCH, M.D.
Chief, Diamond Head Community Mental Health Center ..... VACANT
Chief, Kalihi-Palama Community Mental Health Center ..... LEONARD JACOBS, B.A., M.D.
Chief, Central Oahu Community Mental Health Center ..... SUNAO MURATA, B.A., M.S.W.
Chief, Windward Oahu Community Mental Health Center ..... CHESTER TAYLOR, B.S., M.D.
Chief, Hawaii Mental Health Center ..... JOHN MEBANE, M.D.
Acting Chief, Kauai Mental Health Center ..... ENSLEY UYENO, M.A., Ph.D.
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Administrative Director, Maui County Hospital System ..... JERRY WALKER, B.S., M.B.A.
Administrative Director, Kauai County Hospital System ..... RICHARD JOHNSTON, B.S.
Administrative Director, Honolulu County Hospital System ..... ABRAHAM CHOY, B.S.

Chief, Waimano Training School and Hospital ..... GARRET YANAGI, Ph.D.

District Health Officer, Hawaii (Acting) ..... CHITOSE KANUHA, R.N.

District Health Officer, Maui ..... SIDNEY B. CLARK, M.D., M.P.H.

District Health Officer, Kauai ..... VACANT